Full Grammar

Rule 0 S' -> start

Rule 1 start -> statements

Rule 2 statements -> statement statements

Rule 3 statements -> statement

Rule 4 statement -> simple\_stmt

Rule 5 statement -> compound\_stmt

Rule 6 simple\_stmt -> expression\_stmt

Rule 7 simple\_stmt -> assign\_stmt

Rule 8 simple\_stmt -> increment\_stmt

Rule 9 simple\_stmt -> decrement\_stmt

Rule 10 simple\_stmt -> list\_stmt

Rule 11 simple\_stmt -> dictionary\_stmt

Rule 12 compound\_stmt -> if\_stmt

Rule 13 compound\_stmt -> while\_stmt

Rule 14 compound\_stmt -> for\_stmt

Rule 15 compound\_stmt -> function\_stmt

Rule 16 expression\_stmt -> expression

Rule 17 assign\_stmt -> ID ASSIGN expression SEMICOLON

Rule 18 increment\_stmt -> expression PLUS PLUS SEMICOLON

Rule 19 decrement\_stmt -> expression MINUS MINUS SEMICOLON

Rule 20 list\_stmt -> ID ASSIGN LSBRACKET elements RSBRACKET SEMICOLON

Rule 21 elements -> element COMMA elements

Rule 22 elements -> element

Rule 23 element -> expression

Rule 24 dictionary\_stmt -> ID ASSIGN LCBRACKET dictionary\_objects RCBRACKET SEMICOLON

Rule 25 dictionary\_objects -> dictionary\_object COMMA dictionary\_objects

Rule 26 dictionary\_objects -> dictionary\_object

Rule 27 dictionary\_object -> key COLON value

Rule 28 key -> STRING1

Rule 29 key -> STRING2

Rule 30 value -> expression

Rule 31 if\_stmt -> IF expression DO statements elif\_blocks END

Rule 32 elif\_blocks -> elif\_block elif\_blocks

Rule 33 elif\_blocks -> else\_block

Rule 34 elif\_blocks -> <empty>

Rule 35 elif\_block -> ELIF expression DO statements

Rule 36 else\_block -> ELSE statements

Rule 37 while\_stmt -> WHILE expression DO statements END

Rule 38 for\_stmt -> FOR EACH ID IN element DO statements END

Rule 39 function\_stmt -> ID LPAREN statement RPAREN SEMICOLON

Rule 40 expression -> simple\_expr

Rule 41 expression -> compound\_expr

Rule 42 simple\_expr -> boolean\_expr

Rule 43 simple\_expr -> not\_expr

Rule 44 simple\_expr -> number\_expr

Rule 45 simple\_expr -> id\_expr

Rule 46 simple\_expr -> string\_expr

Rule 47 simple\_expr -> list\_expr

Rule 48 simple\_expr -> parse\_text\_expr

Rule 49 simple\_expr -> group\_expr

Rule 50 simple\_expr -> uplus\_expr

Rule 51 simple\_expr -> uminus\_expr

Rule 52 compound\_expr -> arithmetic\_expr

Rule 53 compound\_expr -> conditional\_expr

Rule 54 boolean\_expr -> TRUE

Rule 55 boolean\_expr -> FALSE

Rule 56 not\_expr -> NOT expression

Rule 57 number\_expr -> NUMBER

Rule 58 id\_expr -> ID

Rule 59 string\_expr -> STRING1

Rule 60 string\_expr -> STRING2

Rule 61 list\_expr -> LSBRACKET elements RSBRACKET

Rule 62 parse\_text\_expr -> SELECTOR LPAREN elements RPAREN

Rule 63 group\_expr -> LPAREN expression RPAREN

Rule 64 uplus\_expr -> PLUS expression

Rule 65 uminus\_expr -> MINUS expression

Rule 66 arithmetic\_expr -> expression PLUS expression

Rule 67 arithmetic\_expr -> expression MINUS expression

Rule 68 arithmetic\_expr -> expression MULTIPLY expression

Rule 69 arithmetic\_expr -> expression DIVIDE expression

Rule 70 arithmetic\_expr -> expression POW expression

Rule 71 arithmetic\_expr -> expression MOD expression

Rule 72 conditional\_expr -> expression AND expression

Rule 73 conditional\_expr -> expression OR expression

Rule 74 conditional\_expr -> expression XOR expression

Rule 75 conditional\_expr -> expression EQUALS expression

Rule 76 conditional\_expr -> expression NOT\_EQUALS expression

Rule 77 conditional\_expr -> expression GREATER\_THAN expression

Rule 78 conditional\_expr -> expression LESS\_THAN expression

Rule 79 conditional\_expr -> expression GREATER\_THAN\_OR\_EQUAL expression

Rule 80 conditional\_expr -> expression LESS\_THAN\_OR\_EQUAL expression