

Rule	FIRST/FOLLOW
0. $\langle \text{Start} \rangle \rightarrow \langle \text{FmtExp} \rangle \uparrow^V @ \text{Done} \downarrow_V \#$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, not, if</i>
1. $\langle \text{FmtExp} \rangle \uparrow^V \rightarrow \langle \text{Exp} \rangle \uparrow^E \langle \text{FmtExp}' \rangle \downarrow_E \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, not, if</i>
2. $\langle \text{Exp} \rangle \uparrow^V \rightarrow \text{if } \langle \text{Exp} \rangle \uparrow^{\text{test}} \text{ then } \langle \text{FmtExp} \rangle \uparrow^{\text{true}} \text{ false } \langle \text{FmtExp} \rangle \uparrow^{\text{false}} @ \text{If } \downarrow_{\text{false,true,test}} \uparrow^V$	<i>if</i>
3. $\langle \text{Exp} \rangle \uparrow^V \rightarrow \langle \text{Disj} \rangle \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, not</i>
4. $\langle \text{Disj} \rangle \uparrow^V \rightarrow \langle \text{Conj} \rangle \uparrow^L \langle \text{Disj}' \rangle \downarrow_L \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, not</i>
5. $\langle \text{Disj}' \rangle \downarrow_L \uparrow^V \rightarrow \text{or } \langle \text{Conj} \rangle \uparrow^R @ \text{Or } \downarrow_{R,L} \uparrow^T \langle \text{Disj}' \rangle \downarrow_T \uparrow^V$	<i>or</i>
6. $\langle \text{Disj}' \rangle \downarrow_E \uparrow^V \rightarrow @ \text{Echo } \downarrow_E \uparrow^V$	<i>#, ), then, else, ,</i>
7. $\langle \text{Conj} \rangle \uparrow^V \rightarrow \langle \text{Neg} \rangle \uparrow^L \langle \text{Conj}' \rangle \downarrow_L \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, not</i>
8. $\langle \text{Conj}' \rangle \downarrow_L \uparrow^V \rightarrow \text{and } \langle \text{Neg} \rangle \uparrow^R @ \text{And } \downarrow_{R,L} \uparrow^T \langle \text{Conj}' \rangle \downarrow_T \uparrow^V$	<i>and</i>
9. $\langle \text{Conj}' \rangle \downarrow_E \uparrow^V \rightarrow @ \text{Echo } \downarrow_E \uparrow^V$	<i>#, ), then, else, or, ,</i>
10. $\langle \text{Neg} \rangle \uparrow^V \rightarrow \text{not } \langle \text{Neg} \rangle \uparrow^T @ \text{Not } \downarrow_T \uparrow^V$	<i>not</i>
11. $\langle \text{Neg} \rangle \uparrow^V \rightarrow \langle \text{Rel} \rangle \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (</i>
12. $\langle \text{Rel} \rangle \uparrow^V \rightarrow \langle \text{Add} \rangle \uparrow^L \langle \text{Rel}' \rangle \downarrow_L \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (</i>
13. $\langle \text{Rel}' \rangle \downarrow_L \uparrow^V \rightarrow \text{RelOp } \uparrow^{\text{'op'}} @ \text{RelOp } \downarrow_{\text{'op'}} \uparrow^{\text{'op'}} \langle \text{Add} \rangle \uparrow^R @ \text{Rel } \downarrow_{R,\text{op},L} \uparrow^V$	<i>RelOp</i>
14. $\langle \text{Rel}' \rangle \downarrow_E \uparrow^V \rightarrow @ \text{Echo } \downarrow_E \uparrow^V$	<i>#, ), then, else, or, and, ,</i>
15. $\langle \text{Add} \rangle \uparrow^V \rightarrow \langle \text{Mult} \rangle \uparrow^L \langle \text{Add}' \rangle \downarrow_L \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (</i>
16. $\langle \text{Add}' \rangle \downarrow_L \uparrow^V \rightarrow \text{AddOp } \uparrow^{\text{'op'}} @ \text{AddOp } \downarrow_{\text{'op'}} \uparrow^{\text{'op'}} \langle \text{Mult} \rangle \uparrow^R @ \text{Add } \downarrow_{R,\text{op},L} \uparrow^T \langle \text{Add}' \rangle \downarrow_T \uparrow^V$	<i>AddOp</i>
17. $\langle \text{Add}' \rangle \downarrow_E \uparrow^V \rightarrow @ \text{Echo } \downarrow_E \uparrow^V$	<i>#, ), then, else, or, and, RelOp, ,</i>
18. $\langle \text{Mult} \rangle \uparrow^V \rightarrow \langle \text{Factor} \rangle \uparrow^L \langle \text{Mult}' \rangle \downarrow_L \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (</i>
19. $\langle \text{Mult}' \rangle \downarrow_L \uparrow^V \rightarrow \text{MulOp } \uparrow^{\text{'op'}} @ \text{MulOp } \downarrow_{\text{'op'}} \uparrow^{\text{'op'}} \langle \text{Factor} \rangle \uparrow^R @ \text{Mul } \downarrow_{L,\text{op},R} \uparrow^T \langle \text{Mult}' \rangle \downarrow_T \uparrow^V$	<i>MulOp</i>
20. $\langle \text{Mult}' \rangle \downarrow_E \uparrow^V \rightarrow @ \text{Echo } \downarrow_E \uparrow^V$	<i>#, ), then, else, or, and, RelOp, AddOp, ,</i>
21. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{Function } \uparrow^{\text{'s'}}$	<i>Function</i>
22. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{Variable } \uparrow^{\text{'s'}}$	<i>Variable</i>
23. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{Integer } \uparrow^{\text{'n'}}$	<i>Integer</i>
24. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{Decimal } \uparrow^{\text{'n'}}$	<i>Decimal</i>
25. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{Literal } \uparrow^{\text{'s'}}$	<i>Literal</i>
26. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{True } @ \text{True } \uparrow^V$	<i>True</i>
27. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{False } @ \text{False } \uparrow^V$	<i>False</i>
28. $\langle \text{Factor} \rangle \uparrow^V \rightarrow ( \langle \text{Exp} \rangle \uparrow^E @ \text{Skip } \downarrow_E \uparrow^V )$	<i>(</i>
29. $\langle \text{Factor} \rangle \uparrow^V \rightarrow \text{Select } \langle \text{Selections} \rangle \uparrow^E @ \text{Select } \downarrow_E \uparrow^V )$	<i>Select</i>
30. $\langle \text{Function}' \rangle \downarrow_{fx} \uparrow^V \rightarrow ( \langle \text{List} \rangle \uparrow^Q @ \text{Skip } \downarrow_Q \uparrow^P ) @ \text{Call } \downarrow_{P,fx} \uparrow^V$	<i>(</i>

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31. $\langle Function' \rangle \downarrow_{fx} \uparrow^V \rightarrow \langle Exp \rangle \uparrow^E @Parameter \downarrow_E \uparrow^P @Call \downarrow_{P,fx} \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, not, if</i>
32. $\langle Function' \rangle \downarrow_{fx} \uparrow^V \rightarrow @NoParameter \uparrow^P @Call \downarrow_{P,fx} \uparrow^V$	<i>#, ), then, else, or, and, RelOp, AddOp, MulOp, ,</i>
33. $\langle List \rangle \uparrow^Q \rightarrow \langle Exp \rangle \uparrow^E @CreateList \downarrow_E \uparrow^P \langle List' \rangle \downarrow_P \uparrow^Q$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, MulOp, AddOp, not, and, or, if</i>
34. $\langle List \rangle \uparrow^Q \rightarrow @EmptyList \uparrow^Q$	<i>)</i>
35. $\langle List' \rangle \downarrow_P \uparrow^Q \rightarrow , \langle Exp \rangle \uparrow^E @InsertList \downarrow_{E,P} \uparrow^U \langle List' \rangle \downarrow_U \uparrow^Q$	<i>,</i>
36. $\langle List' \rangle \downarrow_P \uparrow^Q \rightarrow @Echo \downarrow_P \uparrow^Q$	<i>)</i>
37. $\langle Selections \rangle \uparrow^E \rightarrow \langle SelItem \rangle \uparrow^S @FirstItem \downarrow_S \uparrow^P \langle Selections' \rangle \downarrow_P \uparrow^E$	<i>Variable</i>
38. $\langle Selections' \rangle \downarrow_P \uparrow^E \rightarrow , \langle SelItem \rangle \uparrow^S @InsertItem \downarrow_S \uparrow^P \langle Selections' \rangle \downarrow_P \uparrow^E$	<i>,</i>
39. $\langle Selections' \rangle \downarrow_P \uparrow^Q \rightarrow @Echo \downarrow_P \uparrow^Q$	<i>#, ), then, else, or, and, RelOp, AddOp, MultOp,</i>
40. $\langle SelItem \rangle \uparrow^I \rightarrow \mathbf{Variable} \uparrow_{s'}' @Variable \downarrow_{s'} \uparrow^V \langle SelItem' \rangle \downarrow_V \uparrow^I$	<i>Variable</i>
41. $\langle SelItem' \rangle \downarrow_V \uparrow^I \rightarrow \mathbf{From} \langle Selections \rangle \uparrow^S @SelectItem \downarrow_{S,V} \uparrow^I$	<i>From</i>
42. $\langle SelItem' \rangle \downarrow_V \uparrow^I \rightarrow @Echo \downarrow_V \uparrow^I$	<i>#, ), then, else, or, and, RelOp, AddOp, MultOp, ,</i>
43. $\langle FmtExp' \rangle \downarrow_E \uparrow^V \rightarrow \mathbf{Format} \langle Exp \rangle \uparrow^F @Format \downarrow_{F,E} \uparrow^V$	<i>Format</i>
44. $\langle FmtExp' \rangle \downarrow_E \uparrow^V \rightarrow @Echo \downarrow_E \uparrow^V$	<i>Select, Function, Variable, Integer, Decimal, Literal, True, False, (, not</i>