API Version of Peter Markstein's MeKeeman Table Routine


THE MATRIX T, ALSO EXTERNAL TO PRECEDENCE, HOLDS THE RESULT:

\[
T[I;J] = \begin{cases} 
1 & \text{IF } C[I] = C[J] \\
2 & \text{IF } C[I] > C[J] \\
3 & \text{IF } C[I] < C[J] \\
5 & \text{IF } C[I], C[J] \text{ IS AMBIGUOUS} \\
0 & \text{IF } C[I], C[J] \text{ IS UNGRAMMATICAL.} 
\end{cases}
\]
\[ V \text{ PRECEDENCE} \]

\[ X+pC+(\langle Q, <Q, pZ \rangle \land Z = Z / (C \geq 1) / G \]

\[ T \text{ BEGINS} + \text{ENDS} + (X, X) p 0 \]

\[ S + C \backslash G [1 + Q + 0, X [1 - 1 + p X + (G = 1) / p C]] \]

\[ B + C \backslash G [2 + Q] \]

\[ E + C \backslash G [X - 1] \]

\[ \text{BEGIN}[B;S] + I + J + 1 \]

\[ \text{ENDS}[E;S] + 1 \]

\[ \text{BEGIN} + \text{COMPLETE BEGINS} \]

\[ \text{ENDS} + \text{COMPLETE ENDS} \]

\[ \text{AX}: T[I;J] + C[I] \text{ NEXTTO C}[J] \]

\[ Z + (C[I] \text{ SMALL C}[J]) + C[I] \text{ BIGGER C}[J] \]

\[ T[I;J] + (\langle X \rangle T[I;J] + Z) + 5 \times X + 0 \times T[I;J] \times Z \]

\[ + (pC) \geq J + 1) / AX \]

\[ + (pC) \geq I + I + J + 1) / AX \]

\[ VZ + \text{COMPLETE } X;Y;Q \]

\[ Q + + / + Z + X \]

\[ LCO: Y = Q \]

\[ Z + 2V.AZ \]

\[ + (Y = Q + + / + Z) / LCO \]

\[ VZ + A \text{ NEXTTO B} \]

\[ Z + V / (0, 0, (G = 1)) \land (0, (A = 0), 0) \land (G = B), 0, 0 \]

\[ VZ + A \text{ BIGGER B; U} \]

\[ U + (\text{BEGIN}[C \backslash B;] / C), (\neg \text{BEGIN}[B;] p B) \]

\[ Z + 2V / (0, 0, (G = 1)) \land (0, (V / G = \text{ENDS}[C \backslash A;] / C), 0) \land ((V / G = U), 0, 0) \]

\[ VZ + A \text{ SMALL B} \]

\[ Z + 3V / (0, 0, (G = 1)) \land (0, (G = A), 0) \land ((V / G = \text{BEGIN}[C \backslash B;] / C), 0, 0) \]