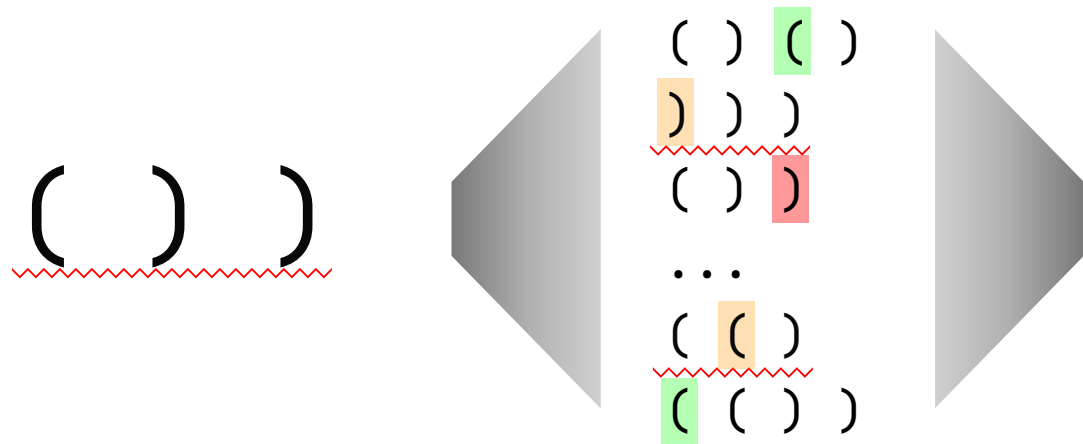


Syntax

$$S \rightarrow () \mid (S) \mid S S$$

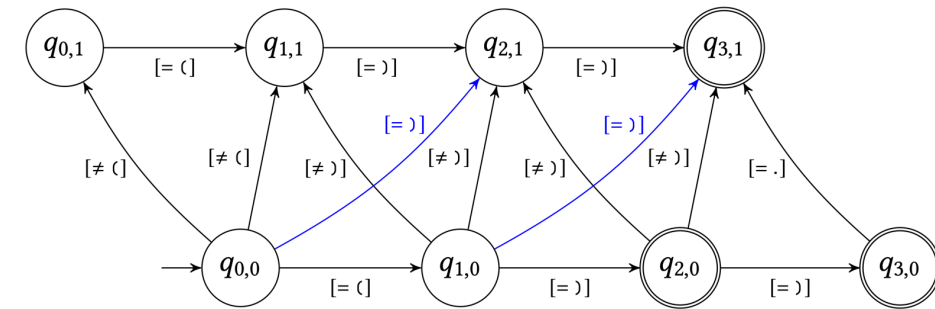
Code edits



CNF grammar

$$\begin{array}{ll} S \rightarrow LR & F \rightarrow SR \\ S \rightarrow LF & S \rightarrow SS \\ L \rightarrow (& R \rightarrow) \end{array}$$

Edit automaton

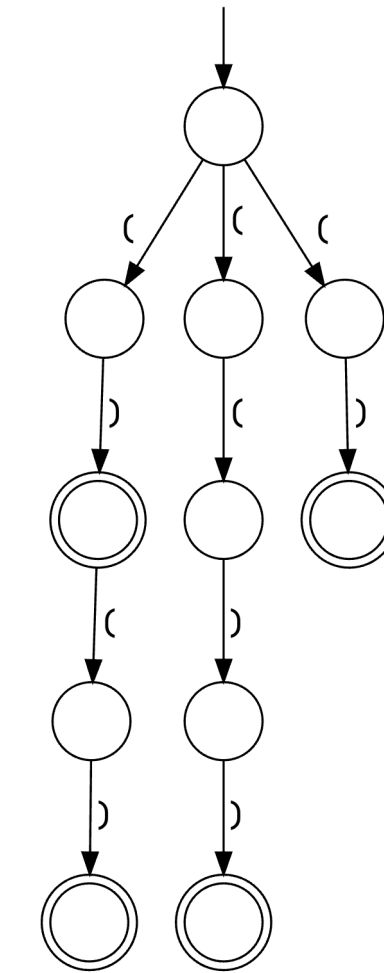


CNF n -grammar

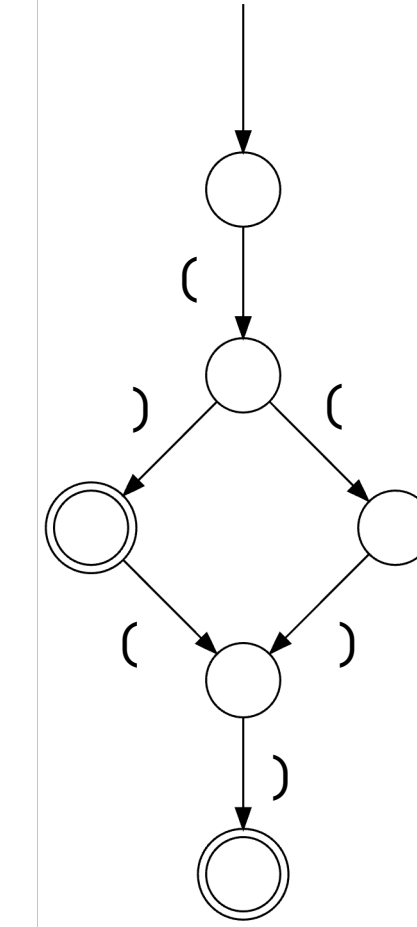
$$\begin{array}{ll}
S \rightarrow q_{00}Lq_{10} \ q_{10}Rq_{31} & \\
S \rightarrow q_{00}Lq_{21} \ q_{21}Rq_{31} & q_{10}Rq_{31} \rightarrow) \\
S \rightarrow q_{00}Lq_{01} \ q_{01}Fq_{31} & q_{11}Rq_{21} \rightarrow) \\
S \rightarrow q_{00}Lq_{10} \ q_{10}Fq_{31} & q_{20}Lq_{21} \rightarrow (\\
S \rightarrow q_{00}Lq_{10} \ q_{10}Rq_{20} & q_{20}Lq_{30} \rightarrow (\\
S \rightarrow q_{00}Sq_{20} \ q_{20}Sq_{31} & q_{20}Rq_{31} \rightarrow)
\end{array}$$

$$\begin{array}{ll}
q_{20}Sq_{31} \rightarrow q_{20}Lq_{21} & q_{21}Rq_{31} \rightarrow) \\
q_{20}Sq_{31} \rightarrow q_{20}Lq_{30} & q_{30}Rq_{31} \rightarrow) \\
q_{00}Sq_{20} \rightarrow q_{00}Lq_{10} & q_{10}Rq_{20} \rightarrow (\\
q_{01}Fq_{31} \rightarrow q_{01}Sq_{21} & q_{21}Rq_{31} \rightarrow) \\
q_{01}Sq_{21} \rightarrow q_{01}Lq_{11} & q_{11}Rq_{21} \rightarrow) \\
q_{10}Fq_{31} \rightarrow q_{10}Sq_{21} & q_{21}Rq_{31} \rightarrow) \\
q_{10}Sq_{21} \rightarrow q_{10}Lq_{11} & q_{11}Rq_{21} \rightarrow) \\
q_{00}Sq_{31} \rightarrow q_{00}Lq_{10} & q_{10}Rq_{31} \rightarrow) \\
q_{00}Sq_{31} \rightarrow q_{00}Lq_{21} & q_{21}Rq_{31} \rightarrow)
\end{array}$$

NFA



DFA*



Ranked repairs

1. ()
2. () ()
3. (())