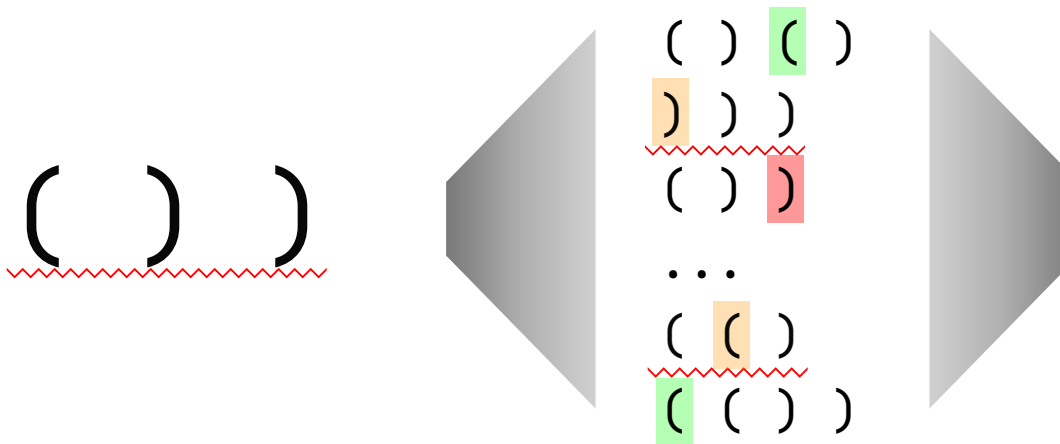


# Syntax

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

# Code edits



# CNF grammar

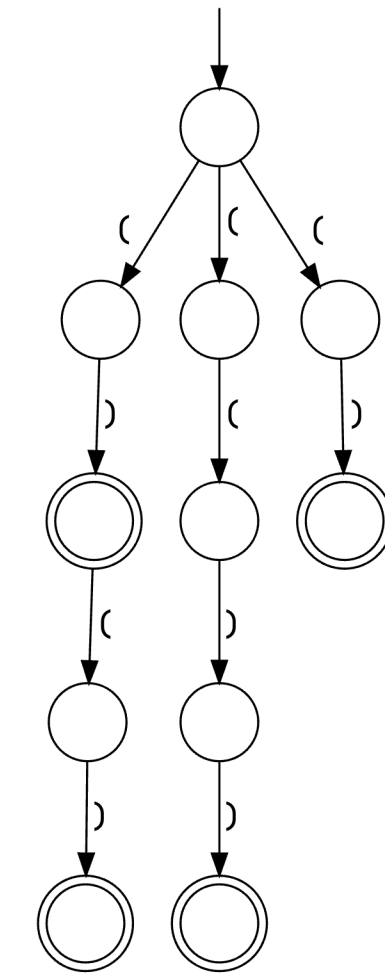
$$\begin{aligned} S &\rightarrow L R & F &\rightarrow S R \\ S &\rightarrow L F & S &\rightarrow S S \\ L &\rightarrow ( & R &\rightarrow ) \end{aligned}$$

# CNF n-grammar

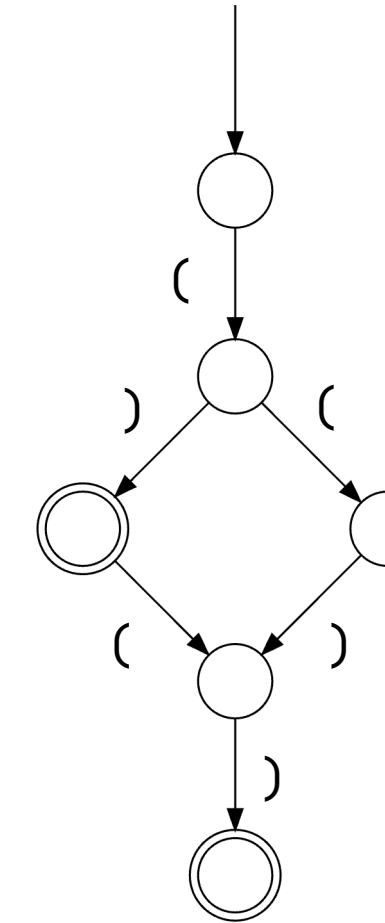
$$\begin{aligned} S &\rightarrow q_{00}Lq_{10} & q_{10}Rq_{31} \\ S &\rightarrow q_{00}Lq_{21} & q_{21}Rq_{31} \\ S &\rightarrow q_{00}Lq_{01} & q_{01}Fq_{31} \\ S &\rightarrow q_{00}Lq_{10} & q_{10}Fq_{31} \\ S &\rightarrow q_{00}Lq_{10} & q_{10}Rq_{20} \\ S &\rightarrow q_{00}Sq_{20} & q_{20}Sq_{31} \end{aligned}$$

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

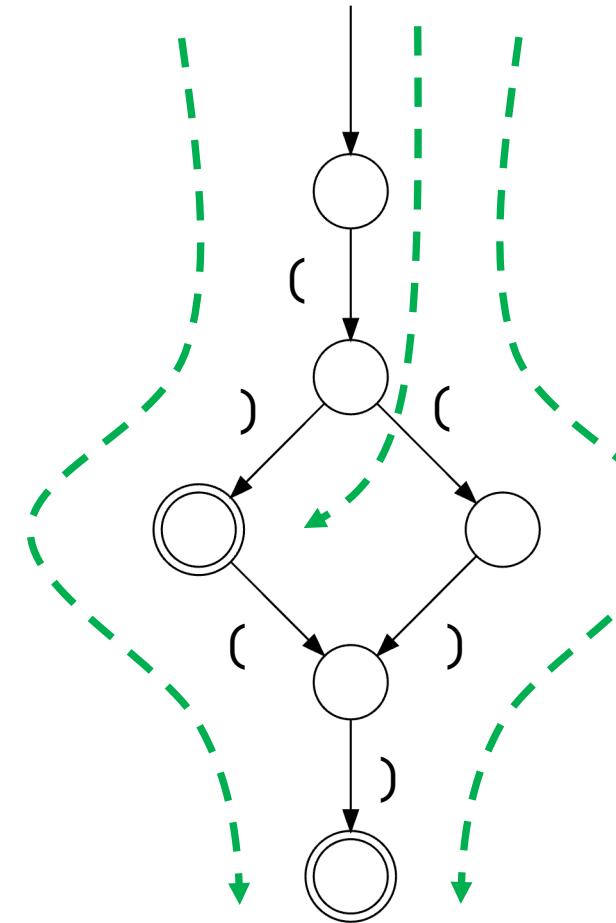
# NFA



# DFA\*



# Decoder



# Ranked repairs

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