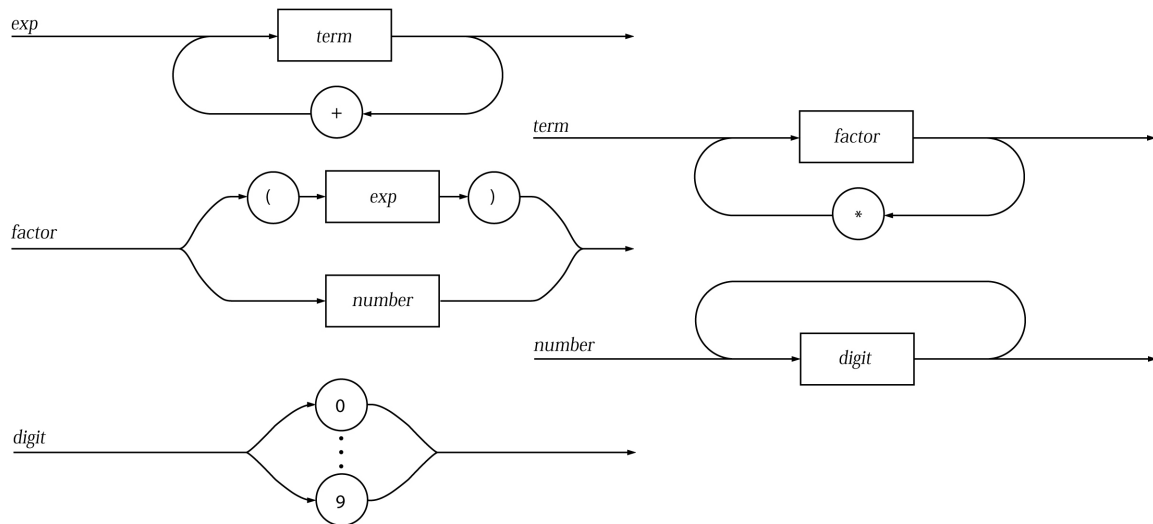


Syntax diagram to BNF



$$\begin{aligned}
 \langle exp \rangle &::= \langle term \rangle [+ \langle term \rangle]^* \\
 \langle factor \rangle &::= \{ (\langle exp \rangle) \} \mid \langle number \rangle \\
 \langle digit \rangle &::= 0 \mid 1 \mid 2 \mid 3 \mid 4 \mid 5 \mid 6 \mid 7 \mid 8 \mid 9
 \end{aligned}$$

BNF to CFG

$$\begin{aligned}
 E &\longrightarrow T A \\
 A &\longrightarrow + T A \mid \varepsilon \\
 N &\longrightarrow D N \mid D
 \end{aligned}$$

CFG to PDA

