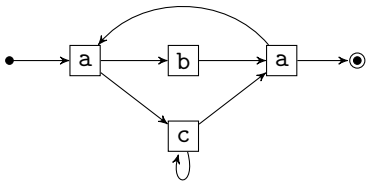
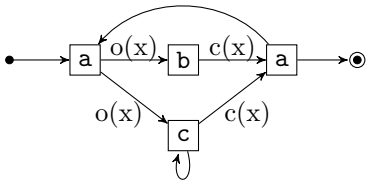
$\mathtt{L}((\mathtt{a} \cdot (\mathtt{b} \vee \mathtt{c}^+) \cdot \mathtt{a})^+)$
$\mathtt{L}(\mathtt{w} \mid \mathtt{w}\ \mathtt{has\ equal\ number\ of\ a's}) = \mathtt{L}((\mathtt{b}^* \cdot \mathtt{a} \cdot \mathtt{b}^* \cdot \mathtt{a} \cdot \mathtt{b}^*)^*)$
$\mathtt{L}(\mathtt{a}^n\mathtt{a}^n) = \mathtt{L}(\mathtt{a}^{2n}) = \mathtt{L}((\mathtt{a} \cdot \mathtt{a})^*)$

$\mathtt{L}(\mathtt{a}^n\mathtt{b}^n)$
$\mathtt{L}(\mathtt{a}^n\mathtt{b}\mathtt{a}^n)$
$\mathtt{L}(\mathtt{ww} \mid \mathtt{w} \in \Sigma^*, |\Sigma| > 1)$

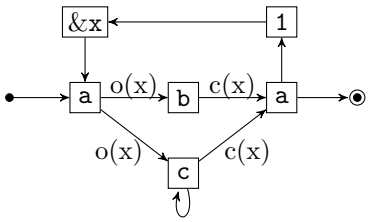
$\mathtt{L}(\mathtt{a}^n\mathtt{b}^n) = \mathtt{L}(\mathtt{x}\{\mathtt{a}^*\} \cdot \mathtt{b} \cdot \&\mathtt{x})$
$\mathtt{L}(\mathtt{ww} \mid \mathtt{w} \in \Sigma^*, |\Sigma| > 1) = L(\mathtt{x}\{(a \vee b)^*\} \cdot \&\mathtt{x})$



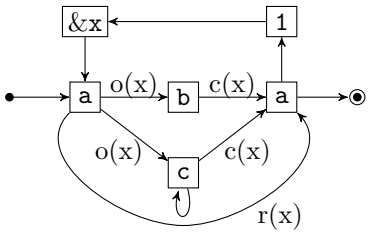
$(\mathtt{a} \cdot (\mathtt{b} \vee \mathtt{c}^+) \cdot \mathtt{a})^+$



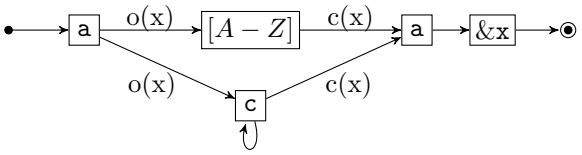
$(\mathtt{a} \cdot \mathtt{x}\{(\mathtt{b} \vee \mathtt{c}^+)\} \cdot \mathtt{a})^+$



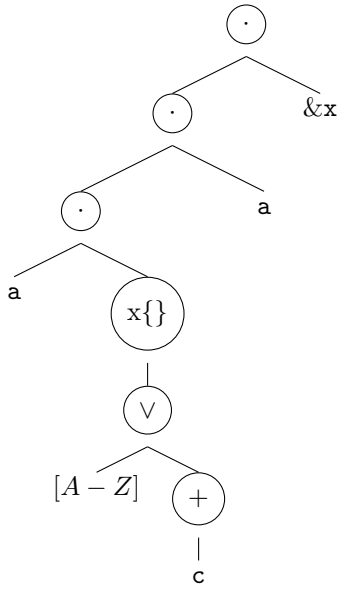
$(\mathtt{a} \cdot \mathtt{x}\{(\mathtt{b} \vee \mathtt{c}^+)\} \cdot \mathtt{a}) \cdot (\mathtt{1} \cdot \&\mathtt{x} \cdot \mathtt{a} \cdot \mathtt{x}\{(\mathtt{b} \vee \mathtt{c}^+)\} \cdot \mathtt{a})^*$

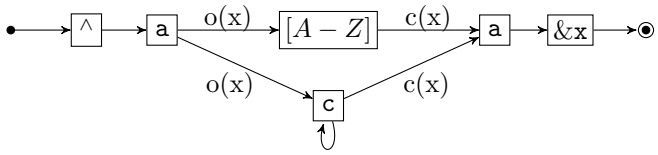


$(\mathtt{a} \cdot \mathtt{x}\{(\mathtt{b} \vee \mathtt{c}^+ \vee \epsilon)\} \cdot \mathtt{a}) \cdot (\mathtt{1} \cdot \&\mathtt{x} \cdot \mathtt{a} \cdot \mathtt{x}\{(\mathtt{b} \vee \mathtt{c}^+ \vee \epsilon)\} \cdot \mathtt{a})^*$

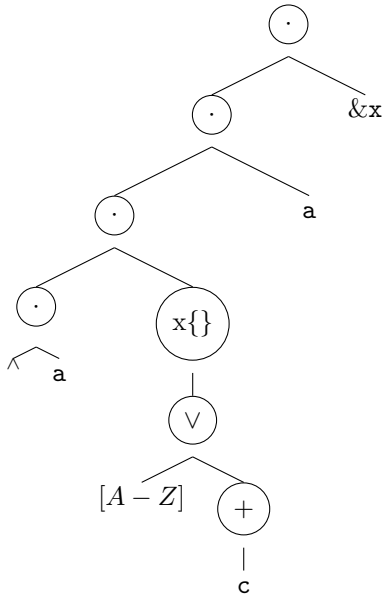


$\mathtt{a} \cdot \mathtt{x}\{(\mathtt{b} \vee \mathtt{c}^{+})\} \cdot \mathtt{a} \cdot \&\mathtt{x}$





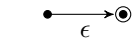
$$^{\wedge} \cdot \mathtt{a} \cdot \mathtt{x}\{([A-Z] \vee \mathtt{c}^{+})\} \cdot \mathtt{a} \cdot \&\mathtt{x}$$

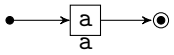


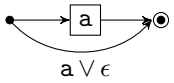
- $\boxed{\wedge}$ $\boxed{\mathtt{a}}$ $\boxed{[A-Z]}$ $\boxed{\mathtt{a}}$ $\boxed{\&\mathtt{x}}$ $\circledcirc$

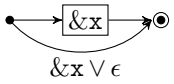
$\boxed{\mathtt{c}}$

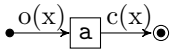
$\wedge \cdot \mathtt{a} \cdot \mathtt{x}\{([A-Z] \vee \mathtt{c}^{+})\} \cdot \mathtt{a} \cdot \&\mathtt{x}$



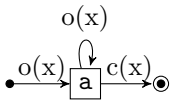




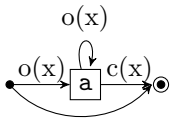




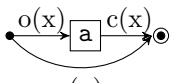
x{a}



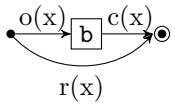
$x\{a\}^+$



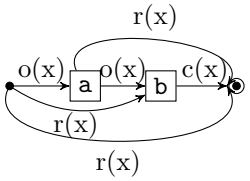
$x\{a\}^*$



$x\{a \vee \epsilon\}$



$\texttt{x}\{\texttt{b} \vee \epsilon\}$



$\texttt{x}\{\texttt{a} \vee \epsilon\} \cdot \texttt{x}\{\texttt{b} \vee \epsilon\}$