

$$\textcircled{1} \quad \frac{\vdash d_1 \xrightarrow{*}_d p_1}{\vdash d_1 \text{ in } d_2 \xrightarrow{}_d p_1 \text{ in } d_2} \quad \mathcal{D}_7$$

$$\frac{\vdash \text{const } x:\text{int}=2 \xrightarrow{}_d [x \leftarrow 2]}{\vdash \text{const } x:\text{int}=2 \text{ in } \underbrace{\text{const } y:\text{int}=x+1; \text{const } z:\text{int}=y+x}_{d_2} \xrightarrow{}_d [x \leftarrow 2] \text{ in } d_2} \quad \mathcal{D}_7$$

$$\textcircled{2} \quad \frac{p_1 \vdash d_2 \xrightarrow{*}_d p_2}{\vdash p_1 \text{ in } d_2 \xrightarrow{}_d p_1 \text{ in } p_2} \quad \mathcal{D}_8$$

$$\textcircled{3} \quad \vdash p_1 \text{ in } p_2 \xrightarrow{}_d p_2 \quad \mathcal{D}_9$$