ⓐ

$$\frac{[x \leftarrow 2] \vdash d_3 \rightarrow_d^* \rho_3}{[x \leftarrow 2] \vdash d_3 ; d_4 \rightarrow_d \rho_3 ; d_4}\ \mathcal{D}_4$$

$$\frac{[x \leftarrow 2] \vdash x+1 \rightarrow_e 3}{[x \leftarrow 2] \vdash \text{const } y{:}int = x+1 \rightarrow_d [y \leftarrow 3]}\ \mathcal{D}_3$$

$$\frac{[x \leftarrow 2] \vdash \text{const } y{:}int = x+1 ; \text{const } z{:}int = y+x \rightarrow_d [y \leftarrow 3] ; \text{const } z{:}int = y+x}{}\ \mathcal{D}_4$$

ⓑ

$$\frac{[x \leftarrow 2][\rho_3] \vdash d_4 \rightarrow_d^* \rho_4}{[x \leftarrow 2] \vdash \rho_3 ; d_4 \rightarrow_d \rho_3 ; \rho_4}\ \mathcal{D}_5$$

ⓒ

$$[x \leftarrow 2] \vdash \rho_3 ; \rho_4 \rightarrow_d \rho_3 [\rho_4]\quad \mathcal{D}_6$$