

⑥

$$\frac{[x \leftarrow 2][p_3] \vdash d_4 \xrightarrow{*}_d p_4}{[x \leftarrow 2] \vdash p_3; d_4 \rightarrow_d p_3; p_4} \equiv \frac{[x \leftarrow 2, y \leftarrow 3] \vdash d_4 \xrightarrow{*}_d p_4}{[x \leftarrow 2] \vdash [y \leftarrow 3]; d_4 \rightarrow_d [y \leftarrow 3]; p_4} \mathcal{D}_5$$

$$\frac{\frac{[x \leftarrow 2, y \leftarrow 3] \vdash y+x \xrightarrow{*}_e 5}{[x \leftarrow 2, y \leftarrow 3] \vdash \text{const } x:\text{int}=y+x \rightarrow_d [z \leftarrow 5]} \mathcal{D}_3}{[x \leftarrow 2] \vdash [y \leftarrow 3]; \text{const } z:\text{int}=y+x \rightarrow_d [y \leftarrow 3]; [z \leftarrow 5]} \mathcal{D}_5$$

⑦

$$[x \leftarrow 2] \vdash p_3; p_4 \rightarrow_d p_3[p_4] \mathcal{D}_6$$