

$$\begin{array}{c}
 \frac{\frac{\frac{}{T \vdash s; t_6} \mid T \vdash s; t_7}{T \vdash ss; t_4}}{\frac{}{T \vdash x; t_5}} \\
 \hline
 \frac{T = \{s; t_1, x; t_2\} \vdash ss \ x; t_3}{\vdash s \cap s. s \cap x. ss \ x; t_0}
 \end{array}$$

- ①  $t_0 \sim t_1 \rightarrow t_2 \rightarrow t_3$   
 ②  $t_4 \sim t_5 \rightarrow t_3 \quad \checkmark$   
 ③  $t_6 \sim t_7 \rightarrow t_4 \quad \checkmark$

- ④  $t_5 \sim t_2 \quad \checkmark$   
 ⑤  $t_6 \sim t_1 \quad \checkmark$   
 ⑥  $t_7 \sim t_1 \quad \checkmark$

- ①  $t_4 \sim t_2 \rightarrow t_3$   
 ③  $t_1 \sim t_1 \rightarrow t_4 \quad \times \text{ Illegal type}$