

$$\begin{array}{c}
 \mathcal{E}S_3 \quad \Delta \vdash_{\{x,y\}} x:int \quad \mathcal{E}S_3 \quad \Delta \vdash_{\{x,y\}} y:int \\
 \mathcal{E}S_5 \quad \hline
 \Delta \vdash_{\{x,y\}} x*y:int \\
 \mathcal{E}S_1 \quad \hline
 \Delta \vdash_{\{x,y\}} x := x*y
 \end{array}
 \quad
 \begin{array}{l}
 \Delta(x) = \text{int loc} \\
 \Delta(y) = \text{int} \\
 \\
 \Delta(x) = \text{int loc}
 \end{array}$$