

$$\left\{ \begin{array}{l} \bar{\gamma} \vee \# = e \\ \bar{\gamma} \leq \# \\ \bar{\gamma} \leq \# \end{array} \right. \Rightarrow \left\{ \begin{array}{l} \bar{\gamma} = \# \\ \bar{\gamma} = \# \end{array} \right.$$

$$\underbrace{\bar{\gamma} \wedge \# \vee \bar{\gamma} \wedge \#}_{\substack{\bar{\gamma} \leq \# \\ \bar{\gamma} \leq \#}} \vee \bar{\gamma} \wedge \# \geq \bar{\gamma} \vee \# = e \xrightarrow{\text{Lem}} \bar{\gamma} = \#$$

$$\text{analog } \bar{\gamma} = \#$$

$$\bar{\gamma} \curvearrowright \# = e \Rightarrow \bar{\gamma} \leq \#$$

$$\left\{ \begin{array}{l} \bar{\gamma} \wedge \# \vee \bar{\gamma} \wedge \# \\ \bar{\gamma} \wedge \bar{\gamma} \vee \# \\ \bar{\gamma} \wedge \# \vee \bar{\gamma} \wedge \# \vee \bar{\gamma} \wedge \bar{\gamma} \vee \# \end{array} \right. \leq \bar{\gamma} \Rightarrow \left\{ \begin{array}{l} \bar{\gamma} \wedge \# \vee \bar{\gamma} \wedge \# = \bar{\gamma} \\ \bar{\gamma} \wedge \bar{\gamma} \vee \# = \bar{\gamma} \end{array} \right.$$

$$\Rightarrow \bar{\gamma} = \bar{\gamma} \wedge \# \vee \bar{\gamma} \wedge \# \Rightarrow \bar{\gamma} \sim \# \Rightarrow \bar{\gamma} \sim \# \Rightarrow \bar{\gamma} = \bar{\gamma} \wedge \bar{\gamma} \vee \# \stackrel{\text{distr}}{=} \underbrace{\bar{\gamma} \wedge \bar{\gamma}}_{=0} \vee \bar{\gamma} \wedge \# = \bar{\gamma} \wedge \# \leq \bar{\gamma}$$

$$\bar{\gamma} \leq \bar{\gamma} \vee \# \geq \# \Rightarrow \bar{\gamma} \vee \# \mid \bar{\gamma} \Rightarrow \bar{\gamma} \vee \# \mid \bar{\gamma}$$

$$\text{analog } \bar{\gamma} \mid \bar{\gamma} \vee \# \vee \# \mid \bar{\gamma} \vee \#$$

$$\bar{\gamma} \vee \# \geq \# \leq \# \vee \# \Rightarrow \bar{\gamma} \vee \# \mid \# \vee \# \Rightarrow \bar{\gamma} \vee \# \mid \bar{\gamma} \vee \#$$

$$\bar{\gamma} \wedge \# \leq \bar{\gamma} \leq \bar{\gamma} \vee \# \geq \# \geq \# \wedge \# \Rightarrow \bar{\gamma} \wedge \# \vee \bar{\gamma} \vee \# \mid \bar{\gamma} \vee \# \mid \bar{\gamma} \vee \#$$

$$\bar{\gamma} \wedge \# \leq \bar{\gamma} \vee \# \geq \# \wedge \# \Rightarrow \bar{\gamma} \wedge \# \vee \bar{\gamma} \vee \# \mid \bar{\gamma} \wedge \# \Rightarrow \bar{\gamma} \vee \# \mid \bar{\gamma} \vee \# \mid \bar{\gamma} \vee \#$$

$$Q: \underbrace{\bar{\gamma} \vee \bar{\gamma} \wedge \bar{\gamma} \vee \#}_0 R \bar{\gamma} \vee \# = e$$

$$\text{LHS} \stackrel{0}{\text{oMod}} \text{RHS} \Rightarrow \text{LHS } R \text{ RHS} = e$$

