

## Action $Lbl\_1$

$$\begin{aligned} Lbl\_1 &\triangleq \wedge pc = \text{"Lbl\_1"} \\ &\quad \wedge \text{ IF } x \neq y \\ &\quad \quad \text{ THEN } \wedge \text{ IF } x < y \\ &\quad \quad \quad \text{ THEN } \wedge y' = y - x \\ &\quad \quad \quad \quad \wedge x' = x \\ &\quad \quad \quad \text{ ELSE } \wedge x' = x - y \\ &\quad \quad \quad \quad \wedge y' = y \\ &\quad \quad \wedge pc' = \text{"Lbl\_1"} \\ &\quad \text{ ELSE } \wedge pc' = \text{"Done"} \\ &\quad \wedge \text{ UNCHANGED } \langle x, y \rangle \end{aligned}$$

CLOSE