

t1\_yellow\_4  
(TMV3TkbGRbFcRumnUA8HuTqcV6Wuz2ifqgW)

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Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r2\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (l1\_orders\_2 X0) \Rightarrow (m1\_subset\_1 (k1\_yellow\_0 X0 X1) (u1\_struct\_0 X0)) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1\_orders\_2 X0) \Rightarrow (\forall X1. \forall X2. (m1\_subset\_1 \\ X2 (u1\_struct\_0 X0) \Rightarrow ((r1\_yellow\_0 X0 X1) \Rightarrow ((X2 = k1\_yellow\_0 X0 \\ X1) \Leftrightarrow ((r2\_lattice3 X0 X1 X2) \wedge (\forall X3. (m1\_subset\_1 X3 (u1\_struct\_0 \\ X0) \Rightarrow ((r2\_lattice3 X0 X1 X3) \Rightarrow (r1\_orders\_2 X0 X2 X3)))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1\_orders\_2 X0) \Rightarrow (\forall X1. \forall X2. (m1\_subset\_1 \\ X2 (u1\_struct\_0 X0) \Rightarrow ((r2\_lattice3 X0 X1 X2) \Leftrightarrow (\forall X3. (m1\_subset\_1 \\ X3 (u1\_struct\_0 X0) \Rightarrow ((X3 \in X1) \Rightarrow (r1\_orders\_2 X0 X3 X2)))))) \end{aligned} \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0. (l1\_orders\_2 X0) \Rightarrow (\forall X1. \forall X2. (m1\_subset\_1 \\ X2 (u1\_struct\_0 X0) \Rightarrow (((X2 \in X1) \wedge (r1\_yellow\_0 X0 X1)) \Rightarrow (r1\_orders\_2 \\ X0 X2 (k1\_yellow\_0 X0 X1)))) \end{aligned}$$