

t67\_yellow\_0  
(TMT4eg92mfR6zd8zuFD5GTspfqEy8gVmLnf)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v3\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v4\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v5\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v3\_lattice3 : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v4\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r2\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge ((v4\_orders\_2 X0) \wedge (l1\_orders\_2 \\ &X0))) \Rightarrow (\forall X1. ((\neg v2\_struct\_0 X1) \wedge ((v4\_yellow\_0 X1 X0) \wedge ( \\ &m1\_yellow\_0 X1 X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ &(u1\_struct\_0 X1))) \Rightarrow (((r2\_yellow\_0 X0 X2) \wedge (k2\_yellow\_0 X0 X2 \in \\ &u1\_struct\_0 X1)) \Rightarrow ((r2\_yellow\_0 X1 X2) \wedge (k2\_yellow\_0 X1 X2 = k2\_yellow\_0 \\ &X0 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v3\_lattice3 X0) \wedge (l1\_orders\_2 X0)))) \Rightarrow (\forall X1. (r1\_yellow\_0 X0 X1) \wedge (r2\_yellow\_0 X0 X1)) \tag{2}$$

**Theorem 1**

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge ((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 \\ &X0) \wedge ((v5\_orders\_2 X0) \wedge ((v3\_lattice3 X0) \wedge (l1\_orders\_2 X0)))))) \Rightarrow \\ &(\forall X1. ((\neg v2\_struct\_0 X1) \wedge ((v4\_yellow\_0 X1 X0) \wedge (m1\_yellow\_0 \\ &X1 X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 \\ &X1))) \Rightarrow ((k2\_yellow\_0 X0 X2 \in u1\_struct\_0 X1) \Rightarrow (k2\_yellow\_0 X1 X2 = \\ &k2\_yellow\_0 X0 X2)))) \end{aligned}$$