

## t31\_yellow\_7

(TMPN3UwNHJiSehMxbddUAbcUheY7p1fsHjm)

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Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v1\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $k7\_lattice3 : \iota \Rightarrow \iota$  be given. Let  $v2\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $g1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Let  $v1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k3\_reset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (k7\_lattice3 (k7\_lattice3 X0) = g1\_orders\_2 (u1\_struct\_0 X0) (u1\_orders\_2 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow ((v1\_yellow\_0 X0) \Leftrightarrow (v2\_yellow\_0 (k7\_lattice3 X0))) \quad (2)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (\forall X1.(l1\_orders\_2 X1) \Rightarrow ((g1\_orders\_2 (u1\_struct\_0 X0) (u1\_orders\_2 X0) = g1\_orders\_2 (u1\_struct\_0 X1) (u1\_orders\_2 X1)) \Rightarrow ((v1\_yellow\_0 X0) \Rightarrow (v1\_yellow\_0 X1)) \wedge ((v2\_yellow\_0 X0) \Rightarrow (v2\_yellow\_0 X1)))) \quad (3)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow ((v1\_orders\_2 (k7\_lattice3 X0)) \wedge (l1\_orders\_2 (k7\_lattice3 X0))) \quad (4)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (k7\_lattice3 X0 = g1\_orders\_2 (u1\_struct\_0 X0) (k3\_reset\_1 (u1\_struct\_0 X0) (u1\_struct\_0 X0) (u1\_orders\_2 X0))) \quad (5)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow ((v1\_orders\_2 X0) \Rightarrow (X0 = g1\_orders\_2 (u1\_struct\_0 X0) (u1\_orders\_2 X0))) \quad (6)$$

**Theorem 1**

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow ((v1\_yellow\_0 (k7\_lattice3 X0)) \Leftrightarrow (v2\_yellow\_0 X0))$$