

t21\_waybel\_6  
(TMXjixs8fJyoivwow3NJFaqHosQU5vXhxnC)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v5\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v1\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v6\_waybel\_6 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_yellow\_0 : \iota \Rightarrow \iota$  be given. Let  $k8\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_yellow\_0 : \iota \Rightarrow \iota$  be given. Let  $k7\_lattice3 : \iota \Rightarrow \iota$  be given. Let  $k9\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $v5\_waybel\_6 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 \\ X0) \wedge (l1\_orders\_2 X0)))) \Rightarrow ((k8\_lattice3 X0 (k3\_yellow\_0 X0) = k4\_yellow\_0 \\ (k7\_lattice3 X0)) \wedge (k9\_lattice3 X0 (k4\_yellow\_0 (k7\_lattice3 \\ X0)) = k3\_yellow\_0 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v2\_yellow\_0 \\ X0) \wedge (l1\_orders\_2 X0)))) \Rightarrow (v5\_waybel\_6 (k4\_yellow\_0 X0) X0) \tag{2}$$

Assume the following.

$$\forall X0. ((v1\_yellow\_0 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v1\_orders\_2 \\ (k7\_lattice3 X0)) \wedge (v2\_yellow\_0 (k7\_lattice3 X0))) \tag{3}$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((\neg v2\_struct\_0 \\ (k7\_lattice3 X0)) \wedge (v1\_orders\_2 (k7\_lattice3 X0))) \tag{4}$$

Assume the following.

$$\forall X0. ((v5\_orders\_2 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v1\_orders\_2 \\ (k7\_lattice3 X0)) \wedge (v5\_orders\_2 (k7\_lattice3 X0))) \tag{5}$$

Assume the following.

$$\forall X0. (l1\_orders\_2 X0) \Rightarrow ((v1\_orders\_2 (k7\_lattice3 X0)) \wedge \\ (l1\_orders\_2 (k7\_lattice3 X0))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (m1\_subset\_1 (k3\_yellow\_0 X0) (u1\_struct\_0 X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow (\forall X1. \\ (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow ((v6\_waybel\_6 X1 X0) \Leftrightarrow (v5\_waybel\_6 \\ (k8\_lattice3 X0 X1) (k7\_lattice3 X0)))) \end{aligned} \quad (8)$$

**Theorem 1**

$$\forall X0.((\neg v2\_struct\_0 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 X0) \wedge (l1\_orders\_2 X0)))) \Rightarrow (v6\_waybel\_6 (k3\_yellow\_0 X0) X0)$$