

t18\_waybel16 (TMZF-  
BmrL1W2X9DH47HM9nG2MDGvRie2KpMK)

October 27, 2020

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  $v2\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $v2\_lattice3 : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v3\_lattice3 : \iota \Rightarrow o$  be given. Let  $k2\_yellow\_1 : \iota \Rightarrow \iota$  be given. Let  $k8\_waybel\_0 : \iota \Rightarrow \iota$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $k7\_waybel\_0 : \iota \Rightarrow \iota$  be given. Let  $k7\_lattice3 : \iota \Rightarrow \iota$  be given. Let  $v1\_lattice3 : \iota \Rightarrow o$  be given. Let  $v1\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $v1\_orders\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0 X0) \wedge ((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 X0) \wedge (l1\_orders\_2 X0)))) \Rightarrow (k8\_waybel\_0 X0 = k7\_waybel\_0 (k7\_lattice3 X0)) \quad (1)$$

Assume the following.

$$\forall X0.((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_lattice3 X0) \wedge ((v1\_yellow\_0 X0) \wedge (l1\_orders\_2 X0)))))) \Rightarrow ((v1\_orders\_2 (k2\_yellow\_1 (k7\_waybel\_0 X0))) \wedge (v3\_lattice3 (k2\_yellow\_1 (k7\_waybel\_0 X0)))) \quad (2)$$

Assume the following.

$$\forall X0.((v2\_lattice3 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v1\_orders\_2 (k7\_lattice3 X0)) \wedge (v1\_lattice3 (k7\_lattice3 X0))) \quad (3)$$

Assume the following.

$$\forall X0.((v5\_orders\_2 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v1\_orders\_2 (k7\_lattice3 X0)) \wedge (v5\_orders\_2 (k7\_lattice3 X0))) \quad (4)$$

Assume the following.

$$\forall X0.((v4\_orders\_2 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v1\_orders\_2 (k7\_lattice3 X0)) \wedge (v4\_orders\_2 (k7\_lattice3 X0))) \quad (5)$$

Assume the following.

$$\forall X0.((v3\_orders\_2 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v1\_orders\_2 (k7\_lattice3 X0)) \wedge (v3\_orders\_2 (k7\_lattice3 X0))) \quad (6)$$

Assume the following.

$$\forall X0.((v2\_yellow\_0 X0)\wedge(l1\_orders\_2 X0))\Rightarrow((v1\_orders\_2 (k7\_lattice3 X0))\wedge(v1\_yellow\_0 (k7\_lattice3 X0))) \quad (7)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0)\Rightarrow((v1\_orders\_2 (k7\_lattice3 X0))\wedge(l1\_orders\_2 (k7\_lattice3 X0))) \quad (8)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0)\Rightarrow((v2\_lattice3 X0)\Rightarrow(\neg v2\_struct\_0 X0)) \quad (9)$$

**Theorem 1**

$$\forall X0.((v3\_orders\_2 X0)\wedge((v4\_orders\_2 X0)\wedge((v5\_orders\_2 X0)\wedge((v2\_yellow\_0 X0)\wedge((v2\_lattice3 X0)\wedge(l1\_orders\_2 X0))))))\Rightarrow(v3\_lattice3 (k2\_yellow\_1 (k8\_waybel\_0 X0)))$$