

# t11\_yellow\_6

(TMTZXnspHunRY6SoAn2kWLcifxvb6kddRNo)

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Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(l1\_orders\_2 X0) \Rightarrow (\forall X1.(m1\_yellow\_0 X1 X0) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3.(m1\_subset\_1 \\ & X3 (u1\_struct\_0 X0)) \Rightarrow (\forall X4.(m1\_subset\_1 X4 (u1\_struct\_0 \\ & X1)) \Rightarrow (\forall X5.(m1\_subset\_1 X5 (u1\_struct\_0 X1)) \Rightarrow (((X4 = X2) \wedge \\ & ((X5 = X3) \wedge (r1\_orders\_2 X1 X4 X5)) \Rightarrow (r1\_orders\_2 X0 X2 X3))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((l1\_struct\_0 X0) \wedge (l1\_waybel\_0 X1 X0)) \Rightarrow \\ & (\forall X2.(m1\_yellow\_6 X2 X0 X1) \Rightarrow (l1\_waybel\_0 X2 X0)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1\_struct\_0 X0) \Rightarrow (\forall X1.(l1\_waybel\_0 X1 X0) \Rightarrow \\ & (l1\_orders\_2 X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1\_struct\_0 X0) \Rightarrow (\forall X1.(l1\_waybel\_0 X1 X0) \Rightarrow \\ & (\forall X2.(l1\_waybel\_0 X2 X0) \Rightarrow ((m1\_yellow\_6 X2 X0 X1) \Leftrightarrow ((m1\_yellow\_0 \\ & X2 X1) \wedge (u1\_waybel\_0 X0 X2 = k2\_partfun1 (u1\_struct\_0 X1) (u1\_struct\_0 \\ & X0) (u1\_waybel\_0 X0 X1) (u1\_struct\_0 X2)))))) \end{aligned} \quad (4)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(l1\_struct\_0 X0) \Rightarrow (\forall X1.(l1\_waybel\_0 X1 X0) \Rightarrow \\ & (\forall X2.(m1\_yellow\_6 X2 X0 X1) \Rightarrow (\forall X3.(m1\_subset\_1 X3 \\ & (u1\_struct\_0 X1)) \Rightarrow (\forall X4.(m1\_subset\_1 X4 (u1\_struct\_0 X1)) \Rightarrow \\ & (\forall X5.(m1\_subset\_1 X5 (u1\_struct\_0 X2)) \Rightarrow (\forall X6.(m1\_subset\_1 \\ & X6 (u1\_struct\_0 X2)) \Rightarrow (((X3 = X5) \wedge ((X4 = X6) \wedge (r1\_orders\_2 X2 X5 X6)) \Rightarrow \\ & (r1\_orders\_2 X1 X3 X4)))))))))) \end{aligned}$$