

## t10\_yellow\_6

(TMGQxJLbo6CHw8TYewJ8JbuQx3nx9TnUTVR)

October 27, 2020

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  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  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. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((l1\_struct\_0 X0) \wedge (l1\_waybel\_0 X1 X0)) \Rightarrow \\ & (\forall X2. (m1\_yellow\_6 X2 X0 X1) \Rightarrow (l1\_waybel\_0 X2 X0)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (l1\_struct\_0 X0) \Rightarrow (\forall X1. (l1\_waybel\_0 X1 X0) \Rightarrow (l1\_orders\_2 X1)) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1\_struct\_0 X0) \Rightarrow (\forall X1. (l1\_waybel\_0 X1 X0) \Rightarrow \\ & (\forall X2. (l1\_waybel\_0 X2 X0) \Rightarrow ((m1\_yellow\_6 X2 X0 X1) \Leftrightarrow ((m1\_yellow\_0 \\ & X2 X1) \wedge (u1\_waybel\_0 X0 X2 = k2\_partfun1 (u1\_struct\_0 X1) (u1\_struct\_0 \\ & X0) (u1\_waybel\_0 X0 X1) (u1\_struct\_0 X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1\_orders\_2 X0) \Rightarrow (\forall X1. (l1\_orders\_2 X1) \Rightarrow (( \\ & m1\_yellow\_0 X1 X0) \Leftrightarrow ((r1\_tarski (u1\_struct\_0 X1) (u1\_struct\_0 \\ & X0)) \wedge (r1\_tarski (u1\_orders\_2 X1) (u1\_orders\_2 X0)))))) \end{aligned} \quad (4)$$

### Theorem 1

$$\begin{aligned} & \forall X0. (l1\_struct\_0 X0) \Rightarrow (\forall X1. (l1\_waybel\_0 X1 X0) \Rightarrow \\ & (\forall X2. (m1\_yellow\_6 X2 X0 X1) \Rightarrow (r1\_tarski (u1\_struct\_0 X2) \\ & (u1\_struct\_0 X1)))) \end{aligned}$$