

t50\_yellow\_2  
(TMWBDJ5gWHVjevHNxDCKiGA3mg29vBvyig9)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. 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  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_yellow\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_waybel\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_yellow\_2 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v12\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge ((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 \\ &X0) \wedge ((v5\_orders\_2 X0) \wedge (l1\_orders\_2 X0)))))) \Rightarrow ((k1\_relset\_1 ( \\ &u1\_struct\_0 (k2\_yellow\_1 (k7\_waybel\_0 X0))) (k2\_yellow\_2 X0) = \quad (1) \\ &k7\_waybel\_0 X0) \wedge (m1\_subset\_1 (k2\_relset\_1 (u1\_struct\_0 X0) ( \\ &k2\_yellow\_2 X0)) (k1\_zfmisc\_1 (u1\_struct\_0 X0)))) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge ((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 \\ &X0) \wedge (l1\_orders\_2 X0)))) \Rightarrow (k7\_waybel\_0 X0 = ReplSep (toset (\lambda X1 : \\ &\iota. (\neg v1\_xboole\_0 X1) \wedge ((v1\_waybel\_0 X1 X0) \wedge ((v12\_waybel\_0 X1 \\ &X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))))))) (\lambda X1 : \\ &\iota. True) (\lambda X1 : \iota. X1)) \quad (2) \end{aligned}$$

**Theorem 1**

$$\begin{aligned} \forall X0. \forall X1. (&(\neg v2\_struct\_0 X1) \wedge ((v3\_orders\_2 X1) \wedge \\ &((v4\_orders\_2 X1) \wedge ((v5\_orders\_2 X1) \wedge (l1\_orders\_2 X1)))))) \Rightarrow ( \\ &(X0 \in k1\_relset\_1 (u1\_struct\_0 (k2\_yellow\_1 (k7\_waybel\_0 X1))) \\ &(k2\_yellow\_2 X1)) \Leftrightarrow ((\neg v1\_xboole\_0 X0) \wedge ((v1\_waybel\_0 X0 X1) \wedge ( \\ &(v12\_waybel\_0 X0 X1) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 \\ &X1)))))) \end{aligned}$$