

t34\_yellow19

(TMHXjuP6jHUBcuzMmsUbxLfTH9gPbmKx3nW)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v1\_compts\_1 : \iota \Rightarrow o$  be given. Let  $v4\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v7\_waybel\_0 : \iota \Rightarrow o$  be given. Let  $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_yellow\_6 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $r3\_waybel\_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ X0))) \Rightarrow ((\forall X1.((\neg v2\_struct\_0 X1) \wedge ((v4\_orders\_2 X1) \wedge (( \\ v7\_waybel\_0 X1) \wedge (l1\_waybel\_0 X1 X0)))))) \Rightarrow (\neg (X1 \in k6\_yellow\_6 X0) \wedge \\ (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\neg r3\_waybel\_9 \\ X0 X1 X2)))) \Rightarrow (v1\_compts\_1 X0) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ X0))) \Rightarrow ((v1\_compts\_1 X0) \Leftrightarrow (\forall X1.((\neg v2\_struct\_0 X1) \wedge ((v4\_orders\_2 \\ X1) \wedge ((v7\_waybel\_0 X1) \wedge (l1\_waybel\_0 X1 X0)))))) \Rightarrow (\exists X2.(m1\_subset\_1 \\ X2 (u1\_struct\_0 X0)) \wedge (r3\_waybel\_9 X0 X1 X2))) \end{aligned} \tag{2}$$

**Theorem 1**

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ X0))) \Rightarrow ((v1\_compts\_1 X0) \Leftrightarrow (\forall X1.((\neg v2\_struct\_0 X1) \wedge ((v4\_orders\_2 \\ X1) \wedge ((v7\_waybel\_0 X1) \wedge (l1\_waybel\_0 X1 X0)))))) \Rightarrow (\neg (X1 \in k6\_yellow\_6 \\ X0) \wedge (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\neg r3\_waybel\_9 \\ X0 X1 X2)))) \end{aligned}$$