

t13_necklace
(TMWfzVJbp22c99HhopQ8Vwk1244iJSB9BRB)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $r3_necklace : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_necklace : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2_struct_0 X1) \wedge (l1_orders_2 X1)) \Rightarrow (\forall X2. ((\neg v2_struct_0 \\ & X2) \wedge (l1_orders_2 X2)) \Rightarrow (((r2_necklace X1 X0) \wedge (r2_necklace X2 \\ & X1)) \Rightarrow (r2_necklace X2 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2_struct_0 X1) \wedge (l1_orders_2 X1)) \Rightarrow ((r3_necklace X0 X1) \Leftrightarrow (\\ & (r2_necklace X1 X0) \wedge (r2_necklace X0 X1)))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2_struct_0 X1) \wedge (l1_orders_2 X1)) \Rightarrow (\forall X2. ((\neg v2_struct_0 \\ & X2) \wedge (l1_orders_2 X2)) \Rightarrow (((r3_necklace X0 X1) \wedge (r3_necklace X1 \\ & X2)) \Rightarrow (r3_necklace X0 X2)))) \end{aligned}$$