

t9_lang1

(TMcd6aVCsHR61HRZCnRewXmTm9eApSbxXrx)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_lang1 : \iota \Rightarrow o$ be given. Let $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k3_lang1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_lang1 : \iota \Rightarrow \iota$ be given. Let $r3_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_pre_poly : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2_lang1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_lang1 X0)) \Rightarrow (k3_lang1 X0 = ReplSep \\ (toset (\lambda X1 : \iota. m2_finseq_2 X1 (u1_struct_0 X0) (k3_finseq_2 \\ (u1_struct_0 X0)))) (\lambda X1 : \iota. (r1_tarski (k2_reset_1 (u1_struct_0 \\ X0) X1) (k1_lang1 X0)) \wedge (r3_lang1 X0 (k3_pre_poly (u1_struct_0 \\ X0) (u2_lang1 X0)) X1)) (\lambda X1 : \iota. X1)) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_lang1 X0)) \Rightarrow (\forall X1. (m2_finseq_2 \\ X1 (u1_struct_0 X0) (k3_finseq_2 (u1_struct_0 X0))) \Rightarrow ((X1 \in k3_lang1 \\ X0) \Leftrightarrow ((r1_tarski (k2_reset_1 (u1_struct_0 X0) X1) (k1_lang1 X0)) \wedge \\ (r3_lang1 X0 (k3_pre_poly (u1_struct_0 X0) (u2_lang1 X0)) X1)))) \end{aligned}$$