

l25_qc_lang1 (TMaeDpqHdqStVX- ASj5uZdUEjsrpwwGKdE6F)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k1_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $v1_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k8_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $k3_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (v1_qc_lang1 (k9_qc_lang1 X0) X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(v1_qc_lang1 X1 X0) \Leftrightarrow \\ & ((m1_subset_1 X1 (k1_zfmisc_1 (k13_finseq_1 (k2_zfmisc_1 k5_numbers \\ & (k1_qc_lang1 X0)))))) \wedge ((\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow \\ & (\forall X3.(m2_subset_1 X3 (k6_qc_lang1 X0) (k8_qc_lang1 X0 X2)) \Rightarrow \\ & (\forall X4.((v3_card_1 X4 X2) \wedge (m2_finseq_1 X4 (k2_qc_lang1 X0))) \Rightarrow \\ & (k7_finseq_1 (k12_finseq_1 (k8_qc_lang1 X0 X2) X3) X4 \in X1)))) \wedge \\ & ((k9_finseq_1 (k4_tarski k6_numbers k6_numbers) \in X1) \wedge ((\forall X2. \\ & (m2_finseq_1 X2 (k2_zfmisc_1 k5_numbers (k1_qc_lang1 X0))) \Rightarrow (\\ & (X2 \in X1) \Rightarrow (k7_finseq_1 (k9_finseq_1 (k4_tarski np_1 k6_numbers)) \\ & X2 \in X1))) \wedge ((\forall X2.(m2_finseq_1 X2 (k2_zfmisc_1 k5_numbers \\ & (k1_qc_lang1 X0))) \Rightarrow (\forall X3.(m2_finseq_1 X3 (k2_zfmisc_1 \\ & k5_numbers (k1_qc_lang1 X0))) \Rightarrow (((X2 \in X1) \wedge (X3 \in X1)) \Rightarrow (k7_finseq_1 \\ & (k7_finseq_1 (k9_finseq_1 (k4_tarski np_2 k6_numbers)) X2) X3 \in \\ & X1)))) \wedge (\forall X2.(m2_subset_1 X2 (k2_qc_lang1 X0) (k3_qc_lang1 \\ & X0)) \Rightarrow (\forall X3.(m2_finseq_1 X3 (k2_zfmisc_1 k5_numbers (k1_qc_lang1 \\ & X0))) \Rightarrow ((X3 \in X1) \Rightarrow (k7_finseq_1 (k7_finseq_1 (k9_finseq_1 (k4_tarski \\ & np_3 k6_numbers)) (k12_finseq_1 (k3_qc_lang1 X0) X2)) X3 \in X1))))))))) \end{aligned} \quad (2)$$

Theorem 1

$$\forall X0.(m1_qc_lang1\ X0)\Rightarrow(m1_subset_1\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k13_finseq_1\ (k2_zfmisc_1\ k5_numbers\ (k1_qc_lang1\ X0))))))$$