t46_zf_lang (TMcshTy6PSDho4u4nXjQosmEKkroyrSYnR5)

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Let $v1\_zf\_lang : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v9\_zf\_lang : \iota \Rightarrow o$ be given. Let $k25\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $k11\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k26\_zf\_lang : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v9\_zf\_lang\ X0) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow ((X1 = k26\_zf\_lang\ X0) \Leftrightarrow (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k11\_zf\_lang\ X2\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v9\_zf\_lang\ X0) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow ((X1 = k25\_zf\_lang\ X0) \Leftrightarrow (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k11\_zf\_lang\ X1\ X2))))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v9\_zf\_lang\ X0) \Leftrightarrow (\exists X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \wedge (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k11\_zf\_lang\ X1\ X2)))) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1. ((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow ((v9\_zf\_lang\ X0) \Rightarrow ((\neg(X1 = k25\_zf\_lang\ X0) \wedge (\forall X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \Rightarrow (X0 \neq k11\_zf\_lang\ X1\ X2))) \wedge (((\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k11\_zf\_lang\ X1\ X2)) \Rightarrow (X1 = k25\_zf\_lang\ X0)) \wedge ((\neg(X1 = k26\_zf\_lang\ X0) \wedge (\forall X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \Rightarrow (X0 \neq k11\_zf\_lang\ X2\ X1))) \wedge ((\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k11\_zf\_lang\ X2\ X1)) \Rightarrow (X1 = k26\_zf\_lang\ X0)))))))$$