t45_zf_lang (TMWUZardLJu5x1RAtxFMZimqpWPUdQL3CyF)

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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 $v11\_zf\_lang : \iota \Rightarrow o$ be given. Let $k13\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $k24\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zf\_lang : \iota$ be given. Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k5\_numbers\ k1\_zf\_lang) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (\forall X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \Rightarrow ((v11\_zf\_lang\ X1) \Rightarrow ((\neg(X0 = k23\_zf\_lang\ X1) \wedge (\forall X3.((v1\_zf\_lang\ X3) \wedge (m2\_finseq\_1\ X3\ k5\_numbers)) \Rightarrow (k13\_zf\_lang\ X0\ X3 \neq X1))) \wedge (((\exists X3.((v1\_zf\_lang\ X3) \wedge (m2\_finseq\_1\ X3\ k5\_numbers)) \wedge (k13\_zf\_lang\ X0\ X3 = X1)) \Rightarrow (X0 = k23\_zf\_lang\ X1)) \wedge ((\neg(X2 = k24\_zf\_lang\ X1) \wedge (\forall X3.(m2\_subset\_1\ X3\ k5\_numbers\ k1\_zf\_lang) \Rightarrow (k13\_zf\_lang\ X3\ X2 \neq X1))) \wedge ((\exists X3.(m2\_subset\_1\ X3\ k5\_numbers\ k1\_zf\_lang) \wedge (k13\_zf\_lang\ X3\ X2 = X1)) \Rightarrow (X2 = k24\_zf\_lang\ X1)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v11\_zf\_lang\ X0) \Leftrightarrow (\exists X1.(m2\_subset\_1\ X1\ k5\_numbers\ k1\_zf\_lang) \wedge (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k13\_zf\_lang\ X1\ X2)))) \tag{2}$$

Theorem 1

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v11\_zf\_lang\ X0) \Rightarrow (X0 = k13\_zf\_lang\ (k23\_zf\_lang\ X0)\ (k24\_zf\_lang\ X0)))$$