

t33\_zf\_lang  
(TMci8cE4fCxSst8A27gxuDedAt2L1p256oe)

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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  $k12\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k11\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow (\forall X2. ( \\ & (v1\_zf\_lang X2) \wedge (m2\_finseq\_1 X2 k5\_numbers)) \Rightarrow (\forall X3. (( \\ & v1\_zf\_lang X3) \wedge (m2\_finseq\_1 X3 k5\_numbers)) \Rightarrow ((k11\_zf\_lang X0 \\ & X1 = k11\_zf\_lang X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow (\forall X2. ( \\ & (v1\_zf\_lang X2) \wedge (m2\_finseq\_1 X2 k5\_numbers)) \Rightarrow (\forall X3. (( \\ & v1\_zf\_lang X3) \wedge (m2\_finseq\_1 X3 k5\_numbers)) \Rightarrow ((k7\_zf\_lang X0 \\ & X1 = k7\_zf\_lang X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1\_zf\_lang X0) \wedge (m1\_finseq\_1 X0 k5\_numbers)) \wedge \\ & ((v1\_zf\_lang X1) \wedge (m1\_finseq\_1 X1 k5\_numbers))) \Rightarrow ((v1\_zf\_lang \\ & (k11\_zf\_lang X0 X1)) \wedge (m2\_finseq\_1 (k11\_zf\_lang X0 X1) k5\_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow (k12\_zf\_lang \\ & X0 X1 = k7\_zf\_lang (k11\_zf\_lang X0 X1) (k11\_zf\_lang X1 X0))) \end{aligned} \quad (5)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_zf\_lang\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1. \\ ((v1\_zf\_lang\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(\forall X2.( \\ (v1\_zf\_lang\ X2)\wedge(m2\_finseq\_1\ X2\ k5\_numbers))\Rightarrow(\forall X3.(( \\ v1\_zf\_lang\ X3)\wedge(m2\_finseq\_1\ X3\ k5\_numbers))\Rightarrow((k12\_zf\_lang\ X0 \\ X1 = k12\_zf\_lang\ X2\ X3)\Rightarrow((X0 = X2)\wedge(X1 = X3)))))) \end{aligned}$$