

t23\_zf\_lang  
(TMLjbJDk1kRYmocphh7nqjyPfkBG8XEsJqZ)

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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  $v2\_zf\_lang : \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v3\_zf\_lang : \iota \Rightarrow o$  be given. Let  $v4\_zf\_lang : \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $v5\_zf\_lang : \iota \Rightarrow o$  be given. Let  $np\_3 : \iota$  be given. Let  $v6\_zf\_lang : \iota \Rightarrow o$  be given. Let  $np\_4 : \iota$  be given. Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\neg (\neg v2\_zf\_lang X0) \wedge ((\neg v3\_zf\_lang X0) \wedge ((\neg v4\_zf\_lang X0) \wedge ((\neg v5\_zf\_lang X0) \wedge (\neg v6\_zf\_lang X0))))) \quad (1)$$

Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v6\_zf\_lang X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_4)) \quad (2)$$

Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v5\_zf\_lang X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_3)) \quad (3)$$

Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v4\_zf\_lang X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_2)) \quad (4)$$

Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v3\_zf\_lang X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_1)) \quad (5)$$

Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v2\_zf\_lang X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = k6\_numbers)) \quad (6)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_zf\_lang\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\neg \\ (\neg(v2\_zf\_lang\ X0)\wedge(k1\_funct\_1\ X0\ np\_1 = k6\_numbers))\wedge((\neg(v3\_zf\_lang \\ X0)\wedge(k1\_funct\_1\ X0\ np\_1 = np\_1))\wedge((\neg(v4\_zf\_lang\ X0)\wedge(k1\_funct\_1 \\ X0\ np\_1 = np\_2))\wedge((\neg(v5\_zf\_lang\ X0)\wedge(k1\_funct\_1\ X0\ np\_1 = np\_3))\wedge \\ (\neg(v6\_zf\_lang\ X0)\wedge(k1\_funct\_1\ X0\ np\_1 = np\_4)))))) \end{aligned}$$