

# t52\_zf\_lang1 (TMGrakYPFb- wmeF7Q3N86VMT3AkUHj2qJG5p)

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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  $r2\_zf\_lang : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k29\_zf\_lang : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ((X0 \in k29\_zf\_lang \\ & \quad X1) \Rightarrow (r2\_zf\_lang X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & (X1 = k29\_zf\_lang X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.((v1\_zf\_lang \\ & X3) \wedge (m2\_finseq\_1 X3 k5\_numbers)) \wedge ((X3 = X2) \wedge (r2\_zf\_lang X3 X0)))))) \end{aligned} \tag{2}$$

## Theorem 1

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ((r2\_zf\_lang \\ & \quad X0 X1) \Leftrightarrow (X0 \in k29\_zf\_lang X1))) \end{aligned}$$