

t13\_finseq\_4  
 (TMJuAuVHj8rf6gpXq31DNpbWbGZDa2jsHt9)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $r1\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $r2\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(r1\_finseq\_4 X0 X1) \Leftrightarrow ((X1 \in k9\_xtuple\_0 X0) \wedge (r2\_finseq\_4 X0 (k1\_funct\_1 X0 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(r2\_finseq\_4 X0 X1) \Rightarrow (\forall X2.(X2 = k1\_finseq\_4 X0 X1) \Leftrightarrow ((X2 \in k9\_xtuple\_0 X0) \wedge (k1\_funct\_1 X0 X2 = X1)))) \quad (2)$$

**Theorem 1**

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(r1\_finseq\_4 X0 X1) \Rightarrow (k1\_finseq\_4 X0 (k1\_funct\_1 X0 X1) = X1))$$