

t9\_finseq\_5  
(TMX6ZHUCN<sub>x</sub>QTBVtG6pLaMgJsWSATD695UVP)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow \\ (\forall X1.(X1 \in k10\_xtuple\_0 X0) \Rightarrow (k1\_funct\_1 X0 (k4\_finseq\_4 \\ X0 X1) = X1)) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow \\ (\forall X1.\forall X2.((X1 \in k10\_xtuple\_0 X0) \wedge ((X2 \in k10\_xtuple\_0 \\ X0) \wedge (k4\_finseq\_4 X0 X1 = k4\_finseq\_4 X0 X2))) \Rightarrow (X1 = X2)) \end{aligned}$$