

t35\_modelc\_2  
(TMaFKe7CK4pAX3q7wZ1z3sPMbGowaLECUbn)

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Let  $v1\_modelc\_2 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r2\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r3\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_2 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & \forall X1.((v1\_modelc\_2 X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ( \\ & \forall X2.((v1\_modelc\_2 X2) \wedge (m2\_finseq\_1 X2 k5\_numbers)) \Rightarrow ( \\ & ((r3\_modelc\_2 X0 X1) \wedge (r3\_modelc\_2 X1 X2)) \Rightarrow (r3\_modelc\_2 X0 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_2 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & \forall X1.((v1\_modelc\_2 X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ( \\ & (r3\_modelc\_2 X0 X1) \Leftrightarrow ((r2\_modelc\_2 X0 X1) \wedge (X0 \neq X1)))) \end{aligned} \tag{2}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_modelc\_2 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & \forall X1.((v1\_modelc\_2 X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ( \\ & \forall X2.((v1\_modelc\_2 X2) \wedge (m2\_finseq\_1 X2 k5\_numbers)) \Rightarrow ( \\ & ((r2\_modelc\_2 X0 X1) \wedge (r2\_modelc\_2 X1 X2)) \Rightarrow (r2\_modelc\_2 X0 X2)))) \end{aligned}$$