t66_modelc_3 (TMExsA6PF5tGDJBtsHSjR1wbsSUARN5HjNW)

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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 $v6\_modelc\_2 : \iota \Rightarrow o$ be given. Let $v5\_modelc\_3 : \iota \Rightarrow o$ be given. Let $k10\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $r2\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_modelc\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.((v1\_modelc\_2\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow ((v5\_modelc\_3\ X0) \wedge (r2\_modelc\_2\ X1\ X0)) \Rightarrow (v5\_modelc\_3\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v3\_modelc\_2\ X0) \vee (v6\_modelc\_2\ X0)) \Rightarrow (r2\_modelc\_2\ (k10\_modelc\_2\ X0)\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m1\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (v1\_modelc\_2\ (k10\_modelc\_2\ X0)) \wedge (m2\_finseq\_1\ (k10\_modelc\_2\ X0)\ k5\_numbers)) \tag{4}$$

Theorem 1

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v6\_modelc\_2\ X0) \wedge (v5\_modelc\_3\ X0)) \Rightarrow (v5\_modelc\_3\ (k10\_modelc\_2\ X0)))$$