

l31\_modelc\_1  
(TMdC7MJoStDyLp789v2qjaqjBkC8aKU39vV)

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Let  $v1\_modelc\_1 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $v2\_modelc\_1 : \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $v3\_modelc\_1 : \iota \Rightarrow o$  be given. Let  $v4\_modelc\_1 : \iota \Rightarrow o$  be given. Let  $v5\_modelc\_1 : \iota \Rightarrow o$  be given. Let  $v6\_modelc\_1 : \iota \Rightarrow o$  be given. Let  $v7\_modelc\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & \neg(\neg(v2\_modelc\_1 X0) \wedge (\neg(v3\_modelc\_1 X0) \wedge (\neg(v4\_modelc\_1 X0) \wedge ( \\ & (\neg(v5\_modelc\_1 X0) \wedge (\neg(v6\_modelc\_1 X0) \wedge (\neg(v7\_modelc\_1 X0))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & (v2\_modelc\_1 X0) \Rightarrow ((k1\_funct\_1 X0 np\_1 \neq k6\_numbers) \wedge ((k1\_funct\_1 \\ & X0 np\_1 \neq np\_1) \wedge ((k1\_funct\_1 X0 np\_1 \neq np\_2) \wedge ((k1\_funct\_1 X0 \\ & np\_1 \neq np\_3) \wedge (k1\_funct\_1 X0 np\_1 \neq np\_4)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & (v7\_modelc\_1 X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_4)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & (v6\_modelc\_1 X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_3)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & (v5\_modelc\_1 X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_2)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & (v4\_modelc\_1 X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = np\_1)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (v3\_modelc\_1 X0) \Rightarrow (k1\_funct\_1 X0 np\_1 = k6\_numbers) \quad (7)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_modelc\_1 X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ( \\ & \neg(\neg(v2\_modelc\_1 X0) \wedge ((k1\_funct\_1 X0 np\_1 \neq k6\_numbers) \wedge ((k1\_funct\_1 \\ & X0 np\_1 \neq np\_1) \wedge ((k1\_funct\_1 X0 np\_1 \neq np\_2) \wedge ((k1\_funct\_1 X0 \\ & np\_1 \neq np\_3) \wedge (k1\_funct\_1 X0 np\_1 \neq np\_4)))))) \wedge ((\neg(v3\_modelc\_1 \\ & X0) \wedge (k1\_funct\_1 X0 np\_1 = k6\_numbers)) \wedge ((\neg(v4\_modelc\_1 X0) \wedge \\ & (k1\_funct\_1 X0 np\_1 = np\_1)) \wedge ((\neg(v5\_modelc\_1 X0) \wedge (k1\_funct\_1 \\ & X0 np\_1 = np\_2)) \wedge ((\neg(v6\_modelc\_1 X0) \wedge (k1\_funct\_1 X0 np\_1 = np\_3)) \wedge \\ & (\neg(v7\_modelc\_1 X0) \wedge (k1\_funct\_1 X0 np\_1 = np\_4)))))) \end{aligned}$$