

## l60\_matrix\_9

(TMNhG4jEkRuVgLwiBhaJzHL3Z1hE6kHhMNt)

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Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k13\_matrix\_2 : \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $k4\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_matrix\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k12\_matrix\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v4\_matrix\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k11\_matrix\_2 : \iota \Rightarrow \iota$  be given. Let  $k3\_group\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m2\_finseq\_1 X0 (u1\_struct\_0 (k13\_matrix\_2 np\_3))) \Rightarrow \\
 & (\neg(k4\_nat\_d (k3\_finseq\_1 X0) np\_2 = k6\_numbers) \wedge ((\forall X1. \\
 & (m1\_subset\_1 X1 k5\_numbers) \Rightarrow (\neg(X1 \in k4\_finseq\_1 X0) \wedge (\forall X2. \\
 & (m1\_matrix\_2 X2 (k12\_matrix\_2 np\_3)) \Rightarrow (\neg(k1\_funct\_1 X0 X1 = X2) \wedge \\
 & (v4\_matrix\_2 X2 (k11\_matrix\_2 (k12\_matrix\_2 np\_3)))))) \wedge (( \\
 & k3\_group\_4 (k13\_matrix\_2 np\_3) X0 \neq k3\_finseq\_4 k5\_numbers np\_1 \\
 & np\_2 np\_3) \wedge ((k3\_group\_4 (k13\_matrix\_2 np\_3) X0 \neq k3\_finseq\_4 \\
 & k5\_numbers np\_2 np\_3 np\_1) \wedge (k3\_group\_4 (k13\_matrix\_2 np\_3) \\
 & X0 \neq k3\_finseq\_4 k5\_numbers np\_3 np\_1 np\_2))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 (u1\_struct\_0 (k13\_matrix\_2 np\_3))) \Rightarrow \\ & (\neg(k4\_nat\_d (k3\_finseq\_1 X0) np\_2 = k6\_numbers) \wedge (\forall X1. \\ & (v7\_ordinal1 X1) \Rightarrow (\neg(X1 \in k4\_finseq\_1 X0) \wedge (\forall X2.(m1\_matrix\_2 \\ & X2 (k12\_matrix\_2 np\_3)) \Rightarrow (\neg(k1\_funct\_1 X0 X1 = X2) \wedge (v4\_matrix\_2 \\ & X2 (k11\_matrix\_2 (k12\_matrix\_2 np\_3))))))) \wedge ((k3\_group\_4 (k13\_matrix\_2 \\ & np\_3) X0 \neq k3\_finseq\_4 k5\_numbers np\_1 np\_2 np\_3) \wedge ((k3\_group\_4 \\ & (k13\_matrix\_2 np\_3) X0 \neq k3\_finseq\_4 k5\_numbers np\_2 np\_3 np\_1) \wedge \\ & (k3\_group\_4 (k13\_matrix\_2 np\_3) X0 \neq k3\_finseq\_4 k5\_numbers np\_3 \\ & np\_1 np\_2)))))) \end{aligned}$$