

# l2\_scmfsa\_9

(TMMh5LStQXt9rBeztN6cF6KfLELoCmEJtAt)

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Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_scmfsa\_2 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k2\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_ami\_3 : \iota$  be given. Let  $k16\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_compos\_1 : \iota \Rightarrow o$  be given. Let  $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k3\_afinsq\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$k2\_compos\_1\ k1\_ami\_3 = k2\_compos\_1\ k1\_scmfsa\_2 \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.k1\_funct\_1\ (k16\_funcop\_1\ X0\ X1)\ X0 = X1 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1\ X1\ X0) \Rightarrow ((l1\_memstr\_0\ X1\ X0) \wedge (l1\_compos\_1\ X1)) \quad (3)$$

Assume the following.

$$(v1\_extpro\_1\ k1\_scmfsa\_2\ np\_3) \wedge (l1\_extpro\_1\ k1\_scmfsa\_2\ np\_3) \quad (4)$$

Assume the following.

$$(v1\_extpro\_1\ k1\_ami\_3\ np\_2) \wedge (l1\_extpro\_1\ k1\_ami\_3\ np\_2) \quad (5)$$

Assume the following.

$$\forall X0.k3\_afinsq\_1\ X0 = k16\_funcop\_1\ k6\_numbers\ X0 \quad (6)$$

Assume the following.

$$\forall X0.(l1\_compos\_1\ X0) \Rightarrow (k4\_compos\_1\ X0 = k3\_afinsq\_1\ (k2\_compos\_1\ X0)) \quad (7)$$

**Theorem 1**

$$k1\_funct\_1\ (k4\_compos\_1\ k1\_scmfsa\_2)\ k6\_numbers = k2\_compos\_1\ k1\_scmfsa\_2$$