t1_scmfsa_2 (TMQH5xtw75nDpPochZgsvuTxeHyjFJX4XDt)

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Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_scmfsa\_2 : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_scmfsa\_1 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_compos\_0 : \iota \Rightarrow o$ be given. Let $v2\_compos\_0 : \iota \Rightarrow o$ be given. Let $v3\_compos\_0 : \iota \Rightarrow o$ be given. Let $v5\_compos\_0 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k2\_scmfsa\_i : \iota$ be given. Let $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $k5\_scmfsa\_1 : \iota$ be given. Let $np\_3 : \iota$ be given. Let $k4\_scmfsa\_1 : \iota$ be given. Let $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12\_scmfsa\_1 : \iota$ be given. Let $u2\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k5\_numbers \in k1\_scmfsa\_1 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\forall X6.((m1\_subset\_1\ X2\ X1)\wedge(((v1\_compos\_0\ X3)\wedge((v2\_compos\_0\ X3)\wedge((v3\_compos\_0\ X3)\wedge(v5\_compos\_0\ X3))))\wedge(((v1\_funct\_1\ X4)\wedge((v1\_funct\_2\ X4\ X1\ X0)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X0)))))\wedge(((v1\_relat\_1\ X5)\wedge((v4\_relat\_1\ X5\ X0)\wedge((v1\_funct\_1\ X5)\wedge(v1\_partfun1\ X5\ X0))))\wedge((v1\_funct\_1\ X6)\wedge((v1\_funct\_2\ X6\ X3\ (k1\_funct\_2\ (k4\_card\_3\ (k3\_relat\_1\ X4\ X5))\ (k4\_card\_3\ (k3\_relat\_1\ X4\ X5))))\wedge(m1\_subset\_1\ X6\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X3\ (k1\_funct\_2\ (k4\_card\_3\ (k3\_relat\_1\ X4\ X5))\ (k4\_card\_3\ (k3\_relat\_1\ X4\ X5))))))))))\Rightarrow(\forall X7.\forall X8.\forall X9.\forall X10.\forall X11.\forall X12.\forall X13.(g1\_extpro\_1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 = g1\_extpro\_1\ X7\ X8\ X9\ X10\ X11\ X12\ X13)\Rightarrow((X0 = X7)\wedge((X1 = X8)\wedge((X2 = X9)\wedge((X3 = X10)\wedge((X4 = X11)\wedge((X5 = X12)\wedge(X6 = X13))))))) \tag{3}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k2\_scmfsa\_i)\wedge(v5\_compos\_0\ k2\_scmfsa\_i) \tag{4}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k2\_scmfsa\_i)\wedge(v3\_compos\_0\ k2\_scmfsa\_i) \tag{5}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k2\_scmfsa\_i)\wedge(v2\_compos\_0\ k2\_scmfsa\_i) \tag{6}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k2\_scmfsa\_i)\wedge(v1\_compos\_0\ k2\_scmfsa\_i) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_memstr\_0\ X1\ X0)\Rightarrow(l2\_struct\_0\ X1) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1\ X1\ X0)\Rightarrow((l1\_memstr\_0\ X1\ X0)\wedge(l1\_compos\_1\ X1)) \tag{9}$$

Assume the following.

$$(v1\_relat\_1\ k5\_scmfsa\_1)\wedge((v4\_relat\_1\ k5\_scmfsa\_1\ np\_\_3)\wedge((v1\_funct\_1\ k5\_scmfsa\_1)\wedge(v1\_partfun1\ k5\_scmfsa\_1\ np\_\_3))) \tag{10}$$

Assume the following.

$$(v1\_funct\_1\ k4\_scmfsa\_1)\wedge((v1\_funct\_2\ k4\_scmfsa\_1\ k1\_scmfsa\_1\ np\_\_3)\wedge(m1\_subset\_1\ k4\_scmfsa\_1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_scmfsa\_1\ np\_\_3)))) \tag{11}$$

Assume the following.

$$(v1\_extpro\_1\ k1\_scmfsa\_2\ np\_\_3)\wedge(l1\_extpro\_1\ k1\_scmfsa\_2\ np\_\_3) \tag{12}$$

Assume the following.

$$(v1\_funct\_1\ k12\_scmfsa\_1)\wedge((v1\_funct\_2\ k12\_scmfsa\_1\ k2\_scmfsa\_i\ (k1\_funct\_2\ (k4\_card\_3\ (k3\_relat\_1\ k4\_scmfsa\_1\ k5\_scmfsa\_1))\ (k4\_card\_3\ (k3\_relat\_1\ k4\_scmfsa\_1\ k5\_scmfsa\_1))))\wedge(m1\_subset\_1\ k12\_scmfsa\_1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k2\_scmfsa\_i\ (k1\_funct\_2\ (k4\_card\_3\ (k3\_relat\_1\ k4\_scmfsa\_1\ k5\_scmfsa\_1))\ (k4\_card\_3\ (k3\_relat\_1\ k4\_scmfsa\_1\ k5\_scmfsa\_1))))))) \tag{13}$$

Assume the following.

$$\forall X0.(l2\_struct\_0\ X0)\Rightarrow(k4\_struct\_0\ X0 = u2\_struct\_0\ X0) \tag{14}$$

Assume the following.

$$k1\_scmfsa\_2 = g1\_extpro\_1\ np\_\_3\ k1\_scmfsa\_1\ (k1\_funct\_7\ k5\_numbers\ k1\_scmfsa\_1)\ k2\_scmfsa\_i\ k4\_scmfsa\_1\ k5\_scmfsa\_1\ k12\_scmfsa\_1 \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1)\Rightarrow(k1\_funct\_7\ X0\ X1 = X0) \tag{16}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1\ X1\ X0)\Rightarrow((v1\_extpro\_1\ X1\ X0)\Rightarrow(X1 = g1\_extpro\_1\ X0\ (u1\_struct\_0\ X1)\ (u2\_struct\_0\ X1)\ (u1\_compos\_1\ X1)\ (u1\_memstr\_0\ X0\ X1)\ (u2\_memstr\_0\ X0\ X1)\ (u1\_extpro\_1\ X0\ X1))) \tag{17}$$

Theorem 1 $k4\_struct\_0\ k1\_scmfsa\_2 = k5\_numbers.$