t67_modelc_2 (TMFZKzUZ3YMiB3qXsfU5VuRfcug4CoetJ2H)

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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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $k43\_modelc\_2 : \iota$ be given. Let $r7\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $k29\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k30\_modelc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k42\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r6\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k22\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v10\_modelc\_2 : \iota \Rightarrow o$ be given. Let $l1\_modelc\_2 : \iota \Rightarrow o$ 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 $k15\_modelc\_2 : \iota$ be given. Let $u1\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k21\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v9\_modelc\_2 : \iota \Rightarrow o$ be given. Let $k47\_modelc\_2 : \iota$ be given. Let $k46\_modelc\_2 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k30\_modelc\_1\ (k25\_modelc\_2\ X0))))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k25\_modelc\_2\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k42\_modelc\_2\ X0\ X1))) \Rightarrow ((r6\_modelc\_2\ X0\ X1\ X2\ (k22\_modelc\_2\ (k42\_modelc\_2\ X0\ X1)\ X3)) \Leftrightarrow (r6\_modelc\_2\ X0\ X1\ (k29\_modelc\_2\ X0\ X2\ np\_\_1)\ X3))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v10\_modelc\_2\ X1) \wedge (l1\_modelc\_2\ X1))) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ k15\_modelc\_2\ (u1\_modelc\_2\ X1)) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k15\_modelc\_2\ (u1\_modelc\_2\ X1)))))) \Rightarrow (k21\_modelc\_2\ X1\ X2\ (k6\_modelc\_2\ X0) = k22\_modelc\_2\ X1\ (k21\_modelc\_2\ X1\ X2\ X0))))) \tag{2}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1)\wedge(m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_1\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0)\Leftrightarrow(m1\_finseq\_1\ X1\ X0) \tag{4}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m1\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(v1\_modelc\_2\ (k6\_modelc\_2\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k30\_modelc\_1\ (k25\_modelc\_2\ X0))))))\Rightarrow((\neg v2\_struct\_0\ (k42\_modelc\_2\ X0\ X1))\wedge((v9\_modelc\_2\ (k42\_modelc\_2\ X0\ X1))\wedge(v10\_modelc\_2\ (k42\_modelc\_2\ X0\ X1)))) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_finseq\_1\ X0\ k5\_numbers)\Rightarrow(m2\_finseq\_1\ (k6\_modelc\_2\ X0)\ k5\_numbers) \tag{8}$$

Assume the following.

$$(v1\_funct\_1\ k47\_modelc\_2)\wedge((v1\_funct\_2\ k47\_modelc\_2\ k15\_modelc\_2\ (u1\_modelc\_2\ (k42\_modelc\_2\ k43\_modelc\_2\ k46\_modelc\_2)))\wedge(m1\_subset\_1\ k47\_modelc\_2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k15\_modelc\_2\ (u1\_modelc\_2\ (k42\_modelc\_2\ k43\_modelc\_2\ k46\_modelc\_2))))))) \tag{9}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k46\_modelc\_2)\wedge(m1\_subset\_1\ k46\_modelc\_2\ (k1\_zfmisc\_1\ (k30\_modelc\_1\ (k25\_modelc\_2\ k43\_modelc\_2)))) \tag{10}$$

Assume the following.

$$\neg v1\_xboole\_0\ k43\_modelc\_2 \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k30\_modelc\_1\ (k25\_modelc\_2\ X0))))))\Rightarrow(l1\_modelc\_2\ (k42\_modelc\_2\ X0\ X1)) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0\ X0)\wedge((m1\_subset\_1\ X1\ (k25\_modelc\_2\ X0))\wedge(v7\_ordinal1\ X2)))\Rightarrow(m1\_subset\_1\ (k29\_modelc\_2\ X0\ X1\ X2)\ (k25\_modelc\_2\ X0)) \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v10\_modelc\_2\ X0)\wedge(l1\_modelc\_2\ X0)))\wedge(((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k15\_modelc\_2\ (u1\_modelc\_2\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k15\_modelc\_2\ (u1\_modelc\_2\ X0))))))\wedge((v1\_modelc\_2\ X2)\wedge(m1\_finseq\_1\ X2\ k5\_numbers))))\Rightarrow(m1\_subset\_1\ (k21\_modelc\_2\ X0\ X1\ X2)\ (u1\_struct\_0\ X0)) \tag{14}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k25\_modelc\_2\ k43\_modelc\_2))\Rightarrow(\forall X1.((v1\_modelc\_2\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow((r7\_modelc\_2\ X0\ X1)\Leftrightarrow(r6\_modelc\_2\ k43\_modelc\_2\ k46\_modelc\_2\ X0\ (k21\_modelc\_2\ (k42\_modelc\_2\ k43\_modelc\_2\ k46\_modelc\_2)\ k47\_modelc\_2\ X1)))) \tag{15}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{16}$$

Theorem 1

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k25\_modelc\_2\ k43\_modelc\_2))\Rightarrow((r7\_modelc\_2\ X1\ (k6\_modelc\_2\ X0))\Leftrightarrow(r7\_modelc\_2\ (k29\_modelc\_2\ k43\_modelc\_2\ X1\ np\_\_1)\ X0)))$$