

t56\_abcmiz\_1  
(TMdzZAa53LxbtSPLTWjtEsKfdzXk8ky396c)

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Let  $v1\_instal1 : \iota \Rightarrow o$  be given. Let  $v1\_abcmiz\_1 : \iota \Rightarrow o$  be given. Let  $v3\_abcmiz\_1 : \iota \Rightarrow o$  be given. Let  $l1\_msualg\_1 : \iota \Rightarrow o$  be given. Let  $m1\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k13\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $k12\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $k30\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k32\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $k31\_abcmiz\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k33\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k16\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_trees\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_abcmiz\_1 : \iota$  be given. Let  $k4\_pre\_poly : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_card\_3 : \iota \Rightarrow \iota$  be given. Let  $u3\_msualg\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k28\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $k15\_abcmiz\_1 : \iota \Rightarrow \iota$  be given. Let  $k10\_abcmiz\_1 : \iota$  be given. Let  $k3\_pre\_poly : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k1\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k7\_abcmiz\_1 : \iota$  be given. Let  $k6\_abcmiz\_1 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instal1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge ((v3\_abcmiz\_1 \\ & X0) \wedge (l1\_msualg\_1 X0)))) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 \\ & X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow ((X1 \neq X2) \Rightarrow \\ & (\forall X3.(m1\_abcmiz\_1 X3 X0 X1) \Rightarrow (\forall X4.(m1\_abcmiz\_1 X4 \\ & X0 X2) \Rightarrow (X3 \neq X4)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instal1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge ((v3\_abcmiz\_1 \\ & X0) \wedge (l1\_msualg\_1 X0)))) \Rightarrow (\forall X1.(m1\_abcmiz\_1 X1 X0 (k13\_abcmiz\_1 \\ & X0)) \Rightarrow (\forall X2.(m1\_abcmiz\_1 X2 X0 (k12\_abcmiz\_1 X0)) \Rightarrow ((m1\_abcmiz\_1 \\ & (k31\_abcmiz\_1 X0 (k16\_abcmiz\_1 X0) X1 X2) X0 (k12\_abcmiz\_1 X0)) \wedge \\ & (k31\_abcmiz\_1 X0 (k16\_abcmiz\_1 X0) X1 X2 = k4\_trees\_4 (k4\_tarski \\ & k9\_abcmiz\_1 (u1\_struct\_0 X0)) (k4\_pre\_poly (k3\_card\_3 (u3\_msualg\_1 \\ & X0 (k1\_msafree3 X0 (k28\_abcmiz\_1 X0)))) X1 X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge((v3\_abcmiz\_1 \\ X0)\wedge(l1\_msualg\_1\ X0))))\Rightarrow(\forall X1.(m1\_abcmiz\_1\ X1\ X0\ (k13\_abcmiz\_1 \\ X0))\Rightarrow((m1\_abcmiz\_1\ (k30\_abcmiz\_1\ X0\ (k15\_abcmiz\_1\ X0)\ X1)\ X0\ ( \\ k13\_abcmiz\_1\ X0))\wedge(k30\_abcmiz\_1\ X0\ (k15\_abcmiz\_1\ X0)\ X1 = k4\_trees\_4 \\ (k4\_tarski\ k10\_abcmiz\_1\ (u1\_struct\_0\ X0))\ (k3\_pre\_poly\ (k3\_card\_3 \\ (u3\_msualg\_1\ X0\ (k1\_msafree3\ X0\ (k28\_abcmiz\_1\ X0))))\ X1)))) \end{aligned} \quad (3)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1 \\ X0)))\Rightarrow(k33\_abcmiz\_1\ X0 = k16\_abcmiz\_1\ X0) \quad (5)$$

Assume the following.

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1 \\ X0)))\Rightarrow(k32\_abcmiz\_1\ X0 = k15\_abcmiz\_1\ X0) \quad (6)$$

Assume the following.

$$np\_1 = k1\_ordinal1\ k1\_xboole\_0 \quad (7)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow((\neg v1\_xboole\_0\ (k1\_ordinal1\ X0))\wedge \\ (v3\_ordinal1\ (k1\_ordinal1\ X0))) \quad (8)$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \quad (9)$$

Assume the following.

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1 \\ X0)))\Rightarrow(m1\_subset\_1\ (k13\_abcmiz\_1\ X0)\ (u1\_struct\_0\ X0)) \quad (10)$$

Assume the following.

$$\forall X0.((v1\_instalg1\ X0)\wedge((v1\_abcmiz\_1\ X0)\wedge(l1\_msualg\_1 \\ X0)))\Rightarrow(m1\_subset\_1\ (k12\_abcmiz\_1\ X0)\ (u1\_struct\_0\ X0)) \quad (11)$$

Assume the following.

$$k10\_abcmiz\_1 = np\_1 \quad (12)$$

Assume the following.

$$k9\_abcmiz\_1 = k6\_numbers \quad (13)$$

Assume the following.

$$k7\_abcmiz\_1 = np\_1 \quad (14)$$

Assume the following.

$$k6\_abcmiz\_1 = k6\_numbers \quad (15)$$

Assume the following.

$$\forall X0.((v1\_instalg1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge (l1\_msualg\_1 X0))) \Rightarrow (k16\_abcmiz\_1 X0 = k9\_abcmiz\_1) \quad (16)$$

Assume the following.

$$\forall X0.((v1\_instalg1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge (l1\_msualg\_1 X0))) \Rightarrow (k15\_abcmiz\_1 X0 = k10\_abcmiz\_1) \quad (17)$$

Assume the following.

$$\forall X0.((v1\_instalg1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge (l1\_msualg\_1 X0))) \Rightarrow (k13\_abcmiz\_1 X0 = k7\_abcmiz\_1) \quad (18)$$

Assume the following.

$$\forall X0.((v1\_instalg1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge (l1\_msualg\_1 X0))) \Rightarrow (k12\_abcmiz\_1 X0 = k6\_abcmiz\_1) \quad (19)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (v3\_ordinal1 X0) \quad (20)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_instalg1 X0) \wedge ((v1\_abcmiz\_1 X0) \wedge ((v3\_abcmiz\_1 \\ & X0) \wedge (l1\_msualg\_1 X0)))) \Rightarrow (\forall X1.(m1\_abcmiz\_1 X1 X0 (k13\_abcmiz\_1 \\ & X0)) \Rightarrow (\forall X2.(m1\_abcmiz\_1 X2 X0 (k13\_abcmiz\_1 X0)) \Rightarrow (\forall X3. \\ & (m1\_abcmiz\_1 X3 X0 (k12\_abcmiz\_1 X0)) \Rightarrow (k30\_abcmiz\_1 X0 (k32\_abcmiz\_1 \\ & X0) X1 \neq k31\_abcmiz\_1 X0 (k33\_abcmiz\_1 X0) X2 X3)))) \end{aligned}$$