

t133_abcmiz_1
(TMdj9ATFqGU7iZEhvyernwsj3ZRRRp1YydB)

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Let $v1_instalg1 : \iota \Rightarrow o$ 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 $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_abcmiz_1 : \iota$ be given. Let $k34_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k56_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k35_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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 $m4_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k55_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_trees_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_msualg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k36_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_abcmiz_1 : \iota \Rightarrow \iota$ 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 $k12_abcmiz_1 : \iota \Rightarrow \iota$ 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. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge \\ & ((v3_abcmiz_1 X0) \wedge (l1_msualg_1 X0)))) \wedge (m1_subset_1 X1 (u1_struct_0 \\ & X0))) \Rightarrow (\forall X2. (m1_abcmiz_1 X2 X0 X1) \Rightarrow (m1_subset_1 X2 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge \\ & ((v3_abcmiz_1 X0) \wedge (l1_msualg_1 X0)))) \wedge ((v1_funct_1 X1) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 (k2_zfmisc_1 k2_abcmiz_1 (k34_abcmiz_1 X0)))))) \Rightarrow \\ & (m4_abcmiz_1 (k55_abcmiz_1 X0 X1) X0 (k28_abcmiz_1 X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 X0 k2_abcmiz_1) \wedge ((v1_instal1 \\ & X1) \wedge ((v1_abcmiz_1 X1) \wedge ((v3_abcmiz_1 X1) \wedge (l1_msualg_1 X1)))))) \Rightarrow \quad (3) \\ & (m1_abcmiz_1 (k35_abcmiz_1 X0 X1) X1 (k14_abcmiz_1 X1)) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_instal1 X0) \wedge ((v1_abcmiz_1 X0) \wedge (l1_msualg_1 \\ & X0))) \Rightarrow (m1_subset_1 (k14_abcmiz_1 X0) (u1_struct_0 X0)) \quad (4) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_instal1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 (k2_zfmisc_1 k2_abcmiz_1 (k34_abcmiz_1 X0)))))) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 (k3_card_3 (u3_msualg_1 X0 (k1_msafree3 \\ & X0 (k28_abcmiz_1 X0)))))) \Rightarrow (k56_abcmiz_1 X0 X1 X2 = k3_funct_2 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))) (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))) (k55_abcmiz_1 \\ & X0 X1) X2)) \quad (5) \end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\
& \quad X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1.((v1_funct_1\ X1) \wedge (m1_subset_1 \\
& \quad X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_abcmiz_1\ (k34_abcmiz_1\ X0)))))) \Rightarrow \\
& (\forall X2.(m4_abcmiz_1\ X2\ X0\ (k28_abcmiz_1\ X0)) \Rightarrow ((X2 = k55_abcmiz_1 \\
& \quad X0\ X1) \Leftrightarrow ((\forall X3.(m1_subset_1\ X3\ k2_abcmiz_1) \Rightarrow (((X3 \in k1_relset_1 \\
& \quad k2_abcmiz_1\ X1) \Rightarrow (k3_funct_2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3 \\
& \quad X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3 \\
& \quad X0\ (k28_abcmiz_1\ X0))))\ X2\ (k35_abcmiz_1\ X3\ X0) = k1_funct_1\ X1\ X3)) \wedge \\
& ((\neg X3 \in k1_relset_1\ k2_abcmiz_1\ X1) \Rightarrow (k3_funct_2\ (k3_card_3\ (u3_msualg_1 \\
& \quad X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3\ (u3_msualg_1 \\
& \quad X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ X2\ (k35_abcmiz_1\ X3\ X0) = \\
& \quad k35_abcmiz_1\ X3\ X0)))) \wedge ((\forall X3.((v2_abcmiz_1\ X3\ X0) \wedge (m1_subset_1 \\
& \quad X3\ (u4_struct_0\ X0))) \Rightarrow (\forall X4.(m1_trees_4\ X4\ (k3_card_3\ (\\
& \quad u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k34_abcmiz_1 \\
& \quad X0)) \Rightarrow (\forall X5.(m1_trees_4\ X5\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3 \\
& \quad X0\ (k28_abcmiz_1\ X0))))\ (k34_abcmiz_1\ X0)) \Rightarrow (((k3_finseq_1\ X4 = \\
& \quad k3_finseq_1\ (k1_msualg_1\ X0\ X3)) \wedge (X5 = k11_lang1\ (k3_card_3\ (u3_msualg_1 \\
& \quad X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3\ (u3_msualg_1 \\
& \quad X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ X4\ X2)) \Rightarrow (k3_funct_2\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ X2\ (k36_abcmiz_1 \\
& \quad X0\ X3\ X4) = k36_abcmiz_1\ X0\ X3\ X5)))) \wedge ((\forall X3.(m1_abcmiz_1 \\
& \quad X3\ X0\ (k13_abcmiz_1\ X0)) \Rightarrow (k3_funct_2\ (k3_card_3\ (u3_msualg_1 \\
& \quad X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3\ (u3_msualg_1 \\
& \quad X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ X2\ (k30_abcmiz_1\ X0\ (k32_abcmiz_1 \\
& \quad X0)\ X3) = k30_abcmiz_1\ X0\ (k32_abcmiz_1\ X0)\ (k3_funct_2\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ X2\ X3))) \wedge \\
& (\forall X3.(m1_abcmiz_1\ X3\ X0\ (k13_abcmiz_1\ X0)) \Rightarrow (\forall X4. \\
& \quad (m1_abcmiz_1\ X4\ X0\ (k12_abcmiz_1\ X0)) \Rightarrow (k3_funct_2\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))\ X2\ (k31_abcmiz_1 \\
& \quad X0\ (k33_abcmiz_1\ X0)\ X3\ X4) = k31_abcmiz_1\ X0\ (k33_abcmiz_1\ X0)\ (\\
& \quad k3_funct_2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1 \\
& \quad X0))))\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1 \\
& \quad X0))))\ X2\ X3)\ (k3_funct_2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3 \\
& \quad X0\ (k28_abcmiz_1\ X0))))\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3 \\
& \quad X0\ (k28_abcmiz_1\ X0))))\ X2\ X4)))))))))
\end{aligned} \tag{6}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instal\!g_1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1 \\ & X0)\wedge(l1_msual\!g_1\ X0))))\Rightarrow(\forall X1.((v1_funct_1\ X1)\wedge(m1_subset_1 \\ & X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_abcmiz_1\ (k34_abcmiz_1\ X0))))))\Rightarrow \\ & (\forall X2.(m1_subset_1\ X2\ k2_abcmiz_1)\Rightarrow((X2 \in k1_relset_1\ k2_abcmiz_1 \\ & X1)\Rightarrow(k56_abcmiz_1\ X0\ X1\ (k35_abcmiz_1\ X2\ X0) = k1_funct_1\ X1\ X2)))) \end{aligned}$$