t41_cqc_the1 (TMXsdkKhDcSBR1awatvivWNj652xgUEtyUC)

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Let $m1\_qc\_lang1 : \iota \Rightarrow o$ be given. Let $k5\_cqc\_lang : \iota \Rightarrow \iota$ be given. Let $k4\_cqc\_the1 : \iota \Rightarrow \iota$ be given. Let $v1\_cqc\_the1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_cqc\_lang : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k2\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k3\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k8\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24\_qc\_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (v1\_cqc\_the1\ (k4\_cqc\_the1\ X0)\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (m1\_subset\_1\ (k4\_cqc\_the1\ X0)\ (k1\_zfmisc\_1\ (k3\_cqc\_lang\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k3\_cqc\_lang\ X0)))\Rightarrow((v1\_cqc\_the1\ X1\ X0)\Leftrightarrow((k5\_cqc\_lang\ X0\in X1)\wedge(\forall X2.(m2\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(\forall X3.(m2\_subset\_1\ X3\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(\forall X4.(m2\_subset\_1\ X4\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (k9\_qc\_lang1\ X0))\Rightarrow(\forall X6.(m2\_subset\_1\ X6\ (k2\_qc\_lang1\ X0)\ (k3\_qc\_lang1\ X0))\Rightarrow(\forall X7.(m2\_subset\_1\ X7\ (k2\_qc\_lang1\ X0)\ (k3\_qc\_lang1\ X0))\Rightarrow((k8\_cqc\_lang\ X0\ (k8\_cqc\_lang\ X0\ (k6\_cqc\_lang\ X0\ X2)\ X2)\ X2\in X1)\wedge((k8\_cqc\_lang\ X0\ X2\ (k8\_cqc\_lang\ X0\ (k6\_cqc\_lang\ X0\ X2)\ X3)\in X1)\wedge((k8\_cqc\_lang\ X0\ (k8\_cqc\_lang\ X0\ X2\ X3)\ (k8\_cqc\_lang\ X0\ (k6\_cqc\_lang\ X0\ (k7\_cqc\_lang\ X0\ X3\ X4))\ (k6\_cqc\_lang\ X0\ (k7\_cqc\_lang\ X0\ X2\ X4)))\in X1)\wedge((k8\_cqc\_lang\ X0\ (k7\_cqc\_lang\ X0\ X2\ X3)\ (k7\_cqc\_lang\ X0\ X3\ X2)\in X1)\wedge((((X2\in X1)\wedge(k8\_cqc\_lang\ X0\ X2\ X3\in X1))\Rightarrow(X3\in X1))\wedge((k8\_cqc\_lang\ X0\ (k11\_cqc\_lang\ X0\ X6\ X2)\ X2\in X1)\wedge(((k8\_cqc\_lang\ X0\ X2\ X3\in X1)\Rightarrow((X6\in k24\_qc\_lang1\ X0\ X2)\vee(k8\_cqc\_lang\ X0\ X2\ (k11\_cqc\_lang\ X0\ X6\ X3)\in X1)))\wedge(((k13\_cqc\_lang\ X0\ X5\ X6\in k3\_cqc\_lang\ X0)\wedge((k13\_cqc\_lang\ X0\ X5\ X7\in k3\_cqc\_lang\ X0)\wedge(k13\_cqc\_lang\ X0\ X5\ X6\in X1)))\Rightarrow((X6\in k24\_qc\_lang1\ X0\ X5)\vee(k13\_cqc\_lang\ X0\ X5\ X7\in X1))))))))))))))))))))\tag{3}$$

Theorem 1 $\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(k5\_cqc\_lang\ X0\in k4\_cqc\_the1\ X0)$.