t27_tmap_1 (TMTssvXJkWJ5TES77kjz3Xum7k9LVC4dBxQ)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tsep\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_tsep\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (m1\_pre\_topc\ X0\ X0) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (m1\_pre\_topc\ X1\ X0)) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge (m1\_pre\_topc\ X2\ X0)) \Rightarrow (\forall X3.((\neg v2\_struct\_0\ X3) \wedge (m1\_pre\_topc\ X3\ X0)) \Rightarrow (\forall X4.((\neg v2\_struct\_0\ X4) \wedge (m1\_pre\_topc\ X4\ X0)) \Rightarrow (((m1\_pre\_topc\ X1\ X3) \wedge (m1\_pre\_topc\ X2\ X4)) \Rightarrow ((r1\_tsep\_1\ X1\ X2) \vee (m1\_pre\_topc\ (k2\_tsep\_1\ X0\ X1\ X2)\ (k2\_tsep\_1\ X0\ X3\ X4)))))))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_pre\_topc\ X1\ X0) \Rightarrow (l1\_pre\_topc\ X1)) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (m1\_pre\_topc\ X1\ X0)) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge (m1\_pre\_topc\ X2\ X0)) \Rightarrow (\forall X3.((\neg v2\_struct\_0\ X3) \wedge (m1\_pre\_topc\ X3\ X0)) \Rightarrow ((\neg r1\_tsep\_1\ X1\ X2) \Rightarrow (((m1\_pre\_topc\ X1\ X3) \Rightarrow (m1\_pre\_topc\ (k2\_tsep\_1\ X0\ X1\ X2)\ (k2\_tsep\_1\ X0\ X3\ X2))) \wedge ((m1\_pre\_topc\ X2\ X3) \Rightarrow (m1\_pre\_topc\ (k2\_tsep\_1\ X0\ X1\ X2)\ (k2\_tsep\_1\ X0\ X1\ X3)))))))))$$