t7_tmap_1 (TM-Noa1akuivC8WmsdmTxGhnGZZAQVXSLaiU)

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Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $g1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_pre\_topc : \iota \Rightarrow \iota$ be given. Let $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_pre\_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_pre\_topc\ X1\ X0) \Rightarrow ((v1\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1))) \wedge (m1\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1))\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(l1\_pre\_topc\ X1) \Rightarrow (\forall X2.(l1\_pre\_topc\ X2) \Rightarrow (\forall X3.(l1\_pre\_topc\ X3) \Rightarrow (((g1\_pre\_topc\ (u1\_struct\_0\ X0)\ (u1\_pre\_topc\ X0) = g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1)) \wedge ((g1\_pre\_topc\ (u1\_struct\_0\ X2)\ (u1\_pre\_topc\ X2) = g1\_pre\_topc\ (u1\_struct\_0\ X3)\ (u1\_pre\_topc\ X3)) \wedge (m1\_pre\_topc\ X2\ X0))) \Rightarrow (m1\_pre\_topc\ X3\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow ((v1\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X0)\ (u1\_pre\_topc\ X0))) \wedge (v2\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X0)\ (u1\_pre\_topc\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow ((v1\_pre\_topc\ X0) \Rightarrow (X0 = g1\_pre\_topc\ (u1\_struct\_0\ X0)\ (u1\_pre\_topc\ X0))) \tag{4}$$

Theorem 1

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.((v2\_pre\_topc\ X1) \wedge (l1\_pre\_topc\ X1)) \Rightarrow (\forall X2.((v2\_pre\_topc\ X2) \wedge (l1\_pre\_topc\ X2)) \Rightarrow ((X1 = g1\_pre\_topc\ (u1\_struct\_0\ X2)\ (u1\_pre\_topc\ X2)) \Rightarrow ((m1\_pre\_topc\ X1\ X0) \Leftrightarrow (m1\_pre\_topc\ X2\ X0))))))$$