t4_stacks_1 (TMYgbMQLXDWGMLXVZmnpedLRvVHmMiBAH21)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v11\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_stacks\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v3\_stacks\_1 : \iota \Rightarrow o$ be given. Let $k5\_stacks\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_stacks\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_stacks\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_stacks\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((\neg v11\_struct\_0\ X0) \wedge (l1\_stacks\_1\ X0))) \Rightarrow ((v3\_stacks\_1\ X0) \Leftrightarrow (\forall X1.(m1\_subset\_1\ X1\ (u4\_struct\_0\ X0)) \Rightarrow ((\neg r1\_stacks\_1\ X0\ X1) \Rightarrow (X1 = k7\_stacks\_1\ X0\ (k5\_stacks\_1\ X0\ X1)\ (k6\_stacks\_1\ X0\ X1))))) \tag{1}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((\neg v11\_struct\_0\ X0) \wedge (l1\_stacks\_1\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u4\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u4\_struct\_0\ X0)) \Rightarrow (((v3\_stacks\_1\ X0) \wedge ((k5\_stacks\_1\ X0\ X1 = k5\_stacks\_1\ X0\ X2) \wedge (k6\_stacks\_1\ X0\ X1 = k6\_stacks\_1\ X0\ X2))) \Rightarrow ((r1\_stacks\_1\ X0\ X1) \vee ((r1\_stacks\_1\ X0\ X2) \vee (X1 = X2))))))$$