

t4\_robbins2  
(TMXyh3ajz4YnCP3ESh7gPLF7nK22sfegVpc)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v1\_robbins2 : \iota \Rightarrow o$  be given. Let  $l2\_robbins1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_robbins1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v1\_robbins2 X0) \wedge (l2\_robbins1 \\ & X0))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (k3\_robbins1 \\ & X0 (k1\_lattices X0 (k3\_robbins1 X0 (k1\_lattices X0 X1) (k3\_robbins1 \\ & X0 X1))) X1) = k3\_robbins1 X0 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v1\_robbins2 X0) \wedge (l2\_robbins1 \\ & X0))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. \\ & (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 \\ & (u1\_struct\_0 X0)) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (u1\_struct\_0 X0)) \Rightarrow \\ & (k3\_robbins1 X0 (k1\_lattices X0 (k3\_robbins1 X0 (k1\_lattices X0 \\ & X1 X2)) (k3\_robbins1 X0 (k1\_lattices X0 (k3\_robbins1 X0 (k1\_lattices \\ & X0 X3 X1)) (k3\_robbins1 X0 (k1\_lattices X0 (k3\_robbins1 X0 X2) (k3\_robbins1 \\ & X0 (k1\_lattices X0 X2 X4)))))) = X2)))))) \end{aligned} \tag{2}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v1\_robbins2 X0) \wedge (l2\_robbins1 \\ & X0))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. \\ & (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 \\ & (u1\_struct\_0 X0)) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (u1\_struct\_0 X0)) \Rightarrow \\ & (k3\_robbins1 X0 (k1\_lattices X0 (k3\_robbins1 X0 (k1\_lattices X0 \\ & X1 X2)) (k3\_robbins1 X0 (k1\_lattices X0 (k3\_robbins1 X0 (k1\_lattices \\ & X0 X3 X1)) (k3\_robbins1 X0 (k1\_lattices X0 (k3\_robbins1 X0 (k1\_lattices \\ & X0 (k3\_robbins1 X0 (k1\_lattices X0 X2 (k3\_robbins1 X0 X2))) X2)) \\ & (k3\_robbins1 X0 (k1\_lattices X0 X2 X4)))))) = X2)))))) \end{aligned}$$