t12_robbins4 (TMNeuPYrVVeVEeFhaxSFhLMKn5v48ot7hCB)

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Let $k3\_lattice3 : \iota \Rightarrow \iota$ be given. Let $g3\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_robbins4 : \iota$ be given. Let $u2\_lattices : \iota \Rightarrow \iota$ be given. Let $u1\_lattices : \iota \Rightarrow \iota$ be given. Let $k1\_robbins4 : \iota$ be given. Let $k4\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k2\_yellow\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_orders\_2 : \iota \Rightarrow \iota$ be given. Let $k1\_yellow\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v3\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v5\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_lattice3 : \iota \Rightarrow o$ be given. Let $v2\_lattice3 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_robbins1 : \iota \Rightarrow o$ be given. Let $l4\_robbins1 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $k14\_lattice3 : \iota \Rightarrow \iota$ be given. Let $v3\_lattices : \iota \Rightarrow o$ be given. Let $v10\_lattices : \iota \Rightarrow o$ be given. Let $l3\_lattices : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_robbins1 : \iota \Rightarrow \iota$ be given. Let $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$u1\_struct\_0\ k2\_robbins4 = k4\_enumset1\ k6\_numbers\ np\_\_1\ (k6\_subset\_1\ np\_\_3\ np\_\_1)\ np\_\_2\ (k6\_subset\_1\ np\_\_3\ np\_\_2)\ np\_\_3 \tag{1}$$

Assume the following.

$$\forall X0.(u1\_struct\_0\ (k2\_yellow\_1\ X0) = X0) \wedge (u1\_orders\_2\ (k2\_yellow\_1\ X0) = k1\_yellow\_1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_orders\_2\ (k2\_yellow\_1\ X0)) \wedge ((v3\_orders\_2\ (k2\_yellow\_1\ X0)) \wedge ((v4\_orders\_2\ (k2\_yellow\_1\ X0)) \wedge (v5\_orders\_2\ (k2\_yellow\_1\ X0)))) \tag{3}$$

Assume the following.

$$(v1\_lattice3\ k1\_robbins4) \wedge (v2\_lattice3\ k1\_robbins4) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_orders\_2\ (k2\_yellow\_1\ X0))\wedge(l1\_orders\_2\ (k2\_yellow\_1\ X0)) \tag{5}$$

Assume the following.

$$(v4\_robbins1\ k2\_robbins4)\wedge(l4\_robbins1\ k2\_robbins4) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow((\neg v2\_struct\_0\ (k14\_lattice3\ X0))\wedge((v3\_lattices\ (k14\_lattice3\ X0))\wedge((v10\_lattices\ (k14\_lattice3\ X0))\wedge(l3\_lattices\ (k14\_lattice3\ X0))))) \tag{7}$$

Assume the following.

$$\forall X0.((v4\_robbins1\ X0)\wedge(l4\_robbins1\ X0))\Rightarrow((X0 = k2\_robbins4)\Leftrightarrow((g3\_lattices\ (u1\_struct\_0\ X0)\ (u2\_lattices\ X0)\ (u1\_lattices\ X0) = k14\_lattice3\ k1\_robbins4)\wedge(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ np\_\_3))\Rightarrow((X1 = X2)\Rightarrow(k1\_funct\_1\ (u1\_robbins1\ X0)\ X1 = k3\_subset\_1\ np\_\_3\ X2)))))) \tag{8}$$

Assume the following.

$$k1\_robbins4 = k2\_yellow\_1\ (k4\_enumset1\ k6\_numbers\ np\_\_1\ (k6\_subset\_1\ np\_\_3\ np\_\_1)\ np\_\_2\ (k6\_subset\_1\ np\_\_3\ np\_\_2)\ np\_\_3) \tag{9}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge(l1\_orders\_2\ X0))))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v3\_lattices\ X1)\wedge((v10\_lattices\ X1)\wedge(l3\_lattices\ X1))))\Rightarrow((X1 = k14\_lattice3\ X0)\Leftrightarrow(g1\_orders\_2\ (u1\_struct\_0\ X0)\ (u1\_orders\_2\ X0) = k3\_lattice3\ X1)))) \tag{10}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow((v1\_orders\_2\ X0)\Rightarrow(X0 = g1\_orders\_2\ (u1\_struct\_0\ X0)\ (u1\_orders\_2\ X0))) \tag{11}$$

Theorem 1

$$k3\_lattice3\ (g3\_lattices\ (u1\_struct\_0\ k2\_robbins4)\ (u2\_lattices\ k2\_robbins4)\ (u1\_lattices\ k2\_robbins4)) = k1\_robbins4$$