l13_robbins3 (TMN-BRGeHo3owXjCMvW7UhBeNpLczj4s8LP8)

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Let $v10\_lattices : \iota \Rightarrow o$ be given. Let $k1\_robbins3 : \iota$ be given. Let $v13\_struct\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $l3\_robbins3 : \iota \Rightarrow o$ be given. Let $l2\_robbins3 : \iota \Rightarrow o$ be given. Let $l1\_robbins3 : \iota \Rightarrow o$ be given. Let $l3\_lattices : \iota \Rightarrow o$ be given. Let $l1\_lattices : \iota \Rightarrow o$ be given. Let $l2\_lattices : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $v8\_lattices : \iota \Rightarrow o$ be given. Let $v9\_lattices : \iota \Rightarrow o$ be given. Let $v17\_lattices : \iota \Rightarrow o$ be given. Let $v6\_lattices : \iota \Rightarrow o$ be given. Let $v7\_lattices : \iota \Rightarrow o$ be given. Let $v4\_lattices : \iota \Rightarrow o$ be given. Let $v5\_lattices : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$v13\_struct\_0\ k1\_robbins3\ np\_\_1 \tag{1}$$

Assume the following.

$$\forall X0.(l3\_robbins3\ X0) \Rightarrow ((l2\_robbins3\ X0) \wedge ((l1\_robbins3\ X0) \wedge (l3\_lattices\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.(l3\_lattices\ X0) \Rightarrow ((l1\_lattices\ X0) \wedge (l2\_lattices\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(l2\_lattices\ X0) \Rightarrow (l1\_struct\_0\ X0) \tag{4}$$

Assume the following.

$$l3\_robbins3\ k1\_robbins3 \tag{5}$$

Assume the following.

$$\forall X0.(l3\_lattices\ X0) \Rightarrow ((v13\_struct\_0\ X0\ np\_\_1) \Rightarrow ((v13\_struct\_0\ X0\ np\_\_1) \wedge ((v8\_lattices\ X0) \wedge ((v9\_lattices\ X0) \wedge (v17\_lattices\ X0))))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_lattices\ X0) \Rightarrow ((v13\_struct\_0\ X0\ np\_\_1) \Rightarrow ((v13\_struct\_0\ X0\ np\_\_1) \wedge ((v6\_lattices\ X0) \wedge (v7\_lattices\ X0)))) \tag{7}$$

Assume the following.

$$\forall X0.(l2\_lattices\ X0)\Rightarrow((v13\_struct\_0\ X0\ np\_\_1)\Rightarrow((v13\_struct\_0\ X0\ np\_\_1)\wedge((v4\_lattices\ X0)\wedge(v5\_lattices\ X0)))) \tag{8}$$

Assume the following.

$$\forall X0.(l3\_lattices\ X0)\Rightarrow(((\neg v2\_struct\_0\ X0)\wedge((v4\_lattices\ X0)\wedge((v5\_lattices\ X0)\wedge((v6\_lattices\ X0)\wedge((v7\_lattices\ X0)\wedge((v8\_lattices\ X0)\wedge(v9\_lattices\ X0))))))\Rightarrow((\neg v2\_struct\_0\ X0)\wedge(v10\_lattices\ X0))) \tag{9}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0)\Rightarrow((v13\_struct\_0\ X0\ np\_\_1)\Rightarrow((\neg v2\_struct\_0\ X0)\wedge(v7\_struct\_0\ X0))) \tag{10}$$

Theorem 1 $v10\_lattices\ k1\_robbins3$.