

t20_robbins4 (TMNAL- VAGY7ziXsAqL6MiZrC8ViR1wUNgGix)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_robbins4 : \iota$ 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 $np_1 : \iota$ be given. Let $k3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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 $k1_robbins4 : \iota$ be given. Let $k13_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$u1_struct_0 \ k2_robbins4 = k4_enumset1 \ k6_numbers \ np_1 \ (k6_subset_1 \ np_3 \ np_1) \ np_2 \ (k6_subset_1 \ np_3 \ np_2) \ np_3 \quad (1)$$

Assume the following.

$$\forall X0. (u1_struct_0 \ (k2_yellow_1 \ X0) = X0) \wedge (u1_orders_2 \ (k2_yellow_1 \ X0) = k1_yellow_1 \ X0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ (u1_struct_0 \ k1_robbins4)) \Rightarrow (\forall X1. \\ & (m1_subset_1 \ X1 \ (u1_struct_0 \ k1_robbins4)) \Rightarrow (((X0 = k6_subset_1 \ np_3 \ np_2) \wedge (X1 = np_1)) \Rightarrow ((k13_lattice3 \ k1_robbins4 \ X0 \ X1 = np_3) \wedge \\ & (k12_lattice3 \ k1_robbins4 \ X0 \ X1 = k6_numbers)))) \quad (3) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ (u1_struct_0 \ k1_robbins4)) \Rightarrow (\forall X1. \\ & (m1_subset_1 \ X1 \ (u1_struct_0 \ k1_robbins4)) \Rightarrow (\forall X2. (m1_subset_1 \ X2 \ (u1_struct_0 \ k2_robbins4)) \Rightarrow (\forall X3. (m1_subset_1 \ X3 \ (u1_struct_0 \ k2_robbins4)) \Rightarrow (((X0 = X2) \wedge (X1 = X3)) \Rightarrow ((k13_lattice3 \ k1_robbins4 \ X0 \ X1 = k3_lattices \ k2_robbins4 \ X2 \ X3) \wedge (k12_lattice3 \ k1_robbins4 \ X0 \ X1 = k4_lattices \ k2_robbins4 \ X2 \ X3)))))) \quad (4) \end{aligned}$$

Assume the following.

$$k1_robbins4 = k2_yellow_1 (k4_enumset1 k6_numbers np_1 (k6_subset_1 np_3 np_1) np_2 (k6_subset_1 np_3 np_2) np_3) \quad (5)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k2_robbins4)) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 k2_robbins4)) \Rightarrow (((X0 = k6_subset_1 np_3 np_2) \wedge (X1 = np_1)) \Rightarrow (k3_lattices k2_robbins4 X0 X1 = np_3)))$$