

# t19\_robbins4

(TMVRCrtxB6H82iJT5aZ9TMBogoRVi6cTB8y)

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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  $np\_1 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k3\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k4\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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. 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.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 \ X0 \ (u1\_struct\_0 \ k1\_robbins4)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 \ X1 \ (u1\_struct\_0 \ k1\_robbins4)) \Rightarrow (((X0 = k6\_subset\_1 \ np\_3 \ np\_1) \wedge (X1 = np\_2)) \Rightarrow ((k13\_lattice3 \ k1\_robbins4 \ X0 \ X1 = np\_3) \wedge \\ & (k12\_lattice3 \ k1\_robbins4 \ X0 \ X1 = k6\_numbers)))) \tag{3} \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 \ X0 \ (u1\_struct\_0 \ k1\_robbins4)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 \ X1 \ (u1\_struct\_0 \ k1\_robbins4)) \Rightarrow (\forall X2. (m1\_subset\_1 \ X2 \ (u1\_struct\_0 \ k2\_robbins4)) \Rightarrow (\forall X3. (m1\_subset\_1 \ X3 \ (u1\_struct\_0 \ k2\_robbins4)) \Rightarrow (((X0 = X2) \wedge (X1 = X3)) \Rightarrow ((k13\_lattice3 \ k1\_robbins4 \ X0 \ X1 = k3\_lattices \ k2\_robbins4 \ X2 \ X3) \wedge (k12\_lattice3 \ k1\_robbins4 \ X0 \ X1 = k4\_lattices \ k2\_robbins4 \ X2 \ X3)))))) \tag{4} \end{aligned}$$

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**

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 k2\_robbins4)) \Rightarrow (\forall X1. \\ (m1\_subset\_1 X1 (u1\_struct\_0 k2\_robbins4)) \Rightarrow (((X0 = k6\_subset\_1 \\ np\_3 np\_1) \wedge (X1 = np\_2)) \Rightarrow ((k3\_lattices k2\_robbins4 X0 X1 = np\_3) \wedge \\ (k4\_lattices k2\_robbins4 X0 X1 = k6\_numbers)))) \end{aligned}$$