

t12\_oposet\_1 (TM-  
Rgf2DV1VwMqxTo5nCWfkkWDVFrFmAYneH)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l2\_qmax\_1 : \iota \Rightarrow o$  be given. Let  $v8\_oposet\_1 : \iota \Rightarrow o$  be given. Let  $v3\_necklace : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v2\_necklace : \iota \Rightarrow o$  be given. Let  $l1\_robbins1 : \iota \Rightarrow o$  be given. Let  $v4\_orders\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_orders\_2 X0)) \Rightarrow ((v2\_necklace X0) \Rightarrow (v3\_necklace X0)) \quad (1)$$

Assume the following.

$$\forall X0. (l2\_qmax\_1 X0) \Rightarrow ((l1\_orders\_2 X0) \wedge (l1\_robbins1 X0)) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge (l2\_qmax\_1 X0)) \Rightarrow ((v8\_oposet\_1 X0) \Leftrightarrow ((v2\_necklace X0) \wedge (v4\_orders\_2 X0))) \quad (3)$$

**Theorem 1**

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge (l2\_qmax\_1 X0)) \Rightarrow ((v8\_oposet\_1 X0) \Rightarrow (v3\_necklace X0))$$