

## t44\_tdlat\_3

(TMHYz7b9qnz2hjZnYMUwD9N8PbC76c7Zhas)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v4\_tdlat\_3 : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $k4\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k12\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k10\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k11\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_tdlat\_1 : \iota \Rightarrow \iota$  be given. Let  $g3\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v4\_tdlat\_3 \\ X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow ((k2\_tdlat\_1 X0 = k10\_tdlat\_1 X0) \wedge (k3\_tdlat\_1 \\ X0 = k11\_tdlat\_1 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v4\_tdlat\_3 \\ X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow (k1\_tdlat\_1 X0 = k9\_tdlat\_1 X0) \tag{2}$$

Assume the following.

$$\forall X0. ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (k4\_tdlat\_1 \\ X0 = g3\_lattices (k1\_tdlat\_1 X0) (k2\_tdlat\_1 X0) (k3\_tdlat\_1 X0)) \tag{3}$$

Assume the following.

$$\forall X0. ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (k12\_tdlat\_1 \\ X0 = g3\_lattices (k9\_tdlat\_1 X0) (k10\_tdlat\_1 X0) (k11\_tdlat\_1 \\ X0)) \tag{4}$$

### Theorem 1

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v4\_tdlat\_3 \\ X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow (k4\_tdlat\_1 X0 = k12\_tdlat\_1 X0)$$