

# t6\_topalg\_5 (TMLYdnPSNECueogvQifSs- FVXw3GhuZW0qQq)

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Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $g1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_pre\_topc : \iota \Rightarrow \iota$  be given. Let  $v1\_connsp\_1 : \iota \Rightarrow o$  be given. Let  $v1\_pre\_topc : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow ((v1\_connsp\_1 (g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0))) \Rightarrow (v1\_connsp\_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. ((v2\_pre\_topc X0) \wedge ((v1\_connsp\_1 X0) \wedge (l1\_pre\_topc X0))) \Rightarrow ((v1\_pre\_topc (g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0))) \wedge (v1\_connsp\_1 (g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0)))) \quad (2)$$

## Theorem 1

$$\forall X0. ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. ((v2\_pre\_topc X1) \wedge (l1\_pre\_topc X1)) \Rightarrow (((g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0) = g1\_pre\_topc (u1\_struct\_0 X1) (u1\_pre\_topc X1)) \wedge (v1\_connsp\_1 X0)) \Rightarrow (v1\_connsp\_1 X1)))$$