

t67\_rltopsp1  
(TMTjzsxPZfNxCUMLoFKdjKroCjvaSYCqgYq)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v13\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $v2\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v3\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v4\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v5\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v6\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v7\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v8\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v6\_rltopsp1 : \iota \Rightarrow o$  be given. Let  $v7\_rltopsp1 : \iota \Rightarrow o$  be given. Let  $l1\_rltopsp1 : \iota \Rightarrow o$  be given. Let  $v8\_rltopsp1 : \iota \Rightarrow o$  be given. Let  $m1\_yellow13 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_rltopsp1 X0)) \Rightarrow ((v8\_rltopsp1 \\ X0) \Leftrightarrow (\exists X1. (m1\_yellow13 X1 X0 (k4\_struct\_0 X0)) \wedge (v1\_rltopsp1 \\ X1 X0))) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v13\_algstr\_0 \\ X0) \wedge ((v2\_rlvect\_1 X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge \\ ((v5\_rlvect\_1 X0) \wedge ((v6\_rlvect\_1 X0) \wedge ((v7\_rlvect\_1 X0) \wedge ((v8\_rlvect\_1 \\ X0) \wedge ((v6\_rltopsp1 X0) \wedge ((v7\_rltopsp1 X0) \wedge (l1\_rltopsp1 X0)))))))))) \Rightarrow \\ (\neg (v8\_rltopsp1 X0) \wedge (\forall X1. (m1\_yellow13 X1 X0 (k4\_struct\_0 \\ X0)) \Rightarrow (\neg v1\_rltopsp1 X1 X0))) \end{aligned}$$