

# l4\_rltopsp1

(TMPkE1f1UsVXMdpvZ93iK6kv9o4Kp99yFBc)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l2\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_rusub\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l2\_algstr\_0 X0)) \Rightarrow (\forall X1. \\
& \quad (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2. \\
& \quad (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (k5\_rusub\_4 X0 X1 X2 = ReplSep \\
& \quad \quad (toset (\lambda X3 : \iota. m1\_subset\_1 X3 (u1\_struct\_0 X0))) (\lambda X3 : \\
& \quad \quad \quad \iota. X3 \in X1) (\lambda X3 : \iota. k1\_algstr\_0 X0 X2 X3))))
\end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l2\_algstr\_0 X0)) \Rightarrow (\forall X1. \\
& \quad (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2. \\
& \quad (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 \\
& \quad (u1\_struct\_0 X0)) \Rightarrow ((X3 \in X1) \Rightarrow (k1\_algstr\_0 X0 X2 X3 \in k5\_rusub\_4 \\
& \quad \quad X0 X1 X2))))))
\end{aligned}$$