

t20\_collsp  
(TMHctRrfhi89VcZVvvVzsKtS31vMSdov7LJ)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_collsp : \iota \Rightarrow o$  be given. Let  $v3\_collsp : \iota \Rightarrow o$  be given. Let  $v4\_collsp : \iota \Rightarrow o$  be given. Let  $l1\_collsp : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $m2\_collsp : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_collsp : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_collsp X0) \wedge ((v3\_collsp X0) \wedge \\ & \quad ((v4\_collsp X0) \wedge (l1\_collsp X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ & \quad X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 \\ & \quad X0)) \Rightarrow (\forall X3. (m2\_collsp X3 X0) \Rightarrow (((X1 \in X3) \wedge (X2 \in X3)) \Rightarrow ((X1 = \\ & \quad X2) \vee (k1\_collsp X0 X1 X2 = X3)))))) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_collsp X0) \wedge ((v3\_collsp X0) \wedge \\ & \quad ((v4\_collsp X0) \wedge (l1\_collsp X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ & \quad X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 \\ & \quad X0)) \Rightarrow (\forall X3. (m2\_collsp X3 X0) \Rightarrow (\forall X4. (m2\_collsp X4 \\ & \quad X0) \Rightarrow (((X1 \in X3) \wedge ((X2 \in X3) \wedge ((X1 \in X4) \wedge (X2 \in X4)))) \Rightarrow ((X1 = X2) \vee (X3 = \\ & \quad X4)))))) \end{aligned}$$