

# l26\_collsp (TMbhVCAuk- WkLtt2FHK51Ld18QNa8wuW2PZn)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $g1\_collsp : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $c7\_collsp : \iota$  be given. Let  $c8\_collsp : \iota$  be given. Let  $l1\_collsp : \iota \Rightarrow o$  be given. Let  $m1\_collsp : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_collsp : \iota \Rightarrow o$  be given. Let  $u1\_collsp : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_collsp X1 X0) \Rightarrow (\forall X2. \forall X3. \\ & (g1\_collsp X0 X1 = g1\_collsp X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. ((v2\_struct\_0 X0) \wedge (l1\_struct\_0 X0)) \Rightarrow (v1\_xboole\_0 (u1\_struct\_0 X0)) \quad (2)$$

Assume the following.

$$\forall X0. (l1\_collsp X0) \Rightarrow (l1\_struct\_0 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_collsp X1 X0) \Rightarrow ((v1\_collsp (g1\_collsp X0 X1)) \wedge (l1\_collsp (g1\_collsp X0 X1))) \quad (4)$$

Assume the following.

$$m1\_collsp c8\_collsp c7\_collsp \quad (5)$$

Assume the following.

$$\neg v1\_xboole\_0 c7\_collsp \quad (6)$$

Assume the following.

$$\forall X0. (l1\_collsp X0) \Rightarrow ((v1\_collsp X0) \Rightarrow (X0 = g1\_collsp (u1\_struct\_0 X0) (u1\_collsp X0))) \quad (7)$$

**Theorem 1**

$$\begin{aligned} & (\neg v2\_struct\_0 (g1\_collsp c7\_collsp c8\_collsp)) \wedge (l1\_collsp \\ & (g1\_collsp c7\_collsp c8\_collsp)) \end{aligned}$$