

# l22\_algstr\_1 (TManZF- PPf9aXiCwK4MtXnQG9YVZPKp453zy)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k8\_algstr\_0 : \iota$  be given. Let  $k6\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $l4\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $l3\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l3\_algstr\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 k8\_algstr\_0)) \Rightarrow (\forall X1. \\ (m1\_subset\_1 X1 (u1\_struct\_0 k8\_algstr\_0)) \Rightarrow (X0 = X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 k8\_algstr\_0)) \Rightarrow (\forall X1. \\ (m1\_subset\_1 X1 (u1\_struct\_0 k8\_algstr\_0)) \Rightarrow (k6\_algstr\_0 k8\_algstr\_0 \\ X0 X1 = k5\_struct\_0 k8\_algstr\_0)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(l4\_algstr\_0 X0) \Rightarrow ((l3\_struct\_0 X0) \wedge (l3\_algstr\_0 X0)) \quad (3)$$

Assume the following.

$$l4\_algstr\_0 k8\_algstr\_0 \quad (4)$$

Assume the following.

$$\forall X0.(l3\_struct\_0 X0) \Rightarrow (m1\_subset\_1 (k5\_struct\_0 X0) (u1\_struct\_0 \\ X0)) \quad (5)$$

## Theorem 1

$$\begin{aligned} (\forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 k8\_algstr\_0)) \Rightarrow (k6\_algstr\_0 \\ k8\_algstr\_0 X0 (k5\_struct\_0 k8\_algstr\_0) = X0)) \wedge (\forall X0.( \\ m1\_subset\_1 X0 (u1\_struct\_0 k8\_algstr\_0)) \Rightarrow (k6\_algstr\_0 k8\_algstr\_0 \\ (k5\_struct\_0 k8\_algstr\_0) X0 = X0)) \end{aligned}$$