

t8\_exchsort  
(TMKF12Ljj91ALDWiDb7Cu9tPgTbYTDS2zyC)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_exchsort : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_exchsort X0) \Leftrightarrow (\exists X1.(v3\_ordinal1 X1) \wedge (\exists X2.(v3\_ordinal1 X2) \wedge (k9\_xtuple\_0 X0 = k6\_subset\_1 X1 X2))) \quad (1)$$

**Theorem 1**

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow (((k9\_xtuple\_0 X0 = k9\_xtuple\_0 X1) \wedge (v1\_exchsort X0)) \Rightarrow (v1\_exchsort X1)))$$