

t3\_exchsort (TMUgKa-  
JQvU9zxwmn4aYxTkCLdyZEqoBMvAC)

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Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarSKI : \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. k4\_xboole\_0 (k2\_xboole\_0 X0 X1) X1 = k4\_xboole\_0 X0 X1 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k6\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (k4\_xboole\_0 (k1\_tarSKI X0) X1 = k1\_tarSKI X0) \Leftrightarrow (\neg X0 \in X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k2\_xboole\_0 X0 X1 = k2\_xboole\_0 X1 X0 \quad (4)$$

**Theorem 1**

$$\forall X0. \forall X1. (\neg X0 \in X1) \Rightarrow (k6\_subset\_1 (k2\_xboole\_0 X1 (k1\_tarSKI X0)) X1 = k1\_tarSKI X0)$$