

# t11\_filerec1 (TMGZE- jzkmTNz1HCQt2KbsNXDnKsbBU8yg8z)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k17\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k5\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\forall X0. k5\_funct\_7 \ k1\_xboole\_0 \ X0 = k9\_finseq\_1 \ X0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_relat\_1 \ X1) \wedge ((v1\_funct\_1 \ X1) \wedge (v1\_finseq\_1 \ X1))) \Rightarrow ((X1 = k9\_finseq\_1 \ X0) \Leftrightarrow ((k3\_finseq\_1 \ X1 = np\_1) \wedge (k1\_funct\_1 \ X1 \ np\_1 = X0))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 \ X1 \ X0) \Rightarrow (k17\_finseq\_1 \ X0 \ (k3\_finseq\_1 \ X1) \ X1 = X1) \quad (3)$$

Assume the following.

$$\forall X0. k9\_finseq\_1 \ X0 = k5\_finseq\_1 \ X0 \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$\forall X0. v1\_finseq\_1 \ (k5\_finseq\_1 \ X0) \quad (6)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 \ (k9\_finseq\_1 \ X0)) \wedge (v1\_funct\_1 \ (k9\_finseq\_1 \ X0)) \quad (7)$$

**Theorem 1**

$$\forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. (m2\_finseq\_1 X2 X1) \Rightarrow ((X2 = k9\_finseq\_1 X0) \Rightarrow (k17\_finseq\_1 X1 \wedge X2 = k9\_finseq\_1 X0)))$$