t5_binari_2
(TMKUgvgJrQzkJF2tkSsnZFCS4pETpZLu2hX)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_margrel1 : \iota$ be given. Let $k1\_binari\_2 : \iota \Rightarrow \iota$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k2\_xboolean : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_margrel1 : \iota$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$k8\_margrel1 = k2\_xboolean \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.((m1\_subset\_1\ X3\ X0) \wedge (m1\_subset\_1\ X4\ X0)) \Rightarrow (k15\_funcop\_1\ X0\ X1\ X2\ X3\ X4 = k14\_funcop\_1\ X1\ X2\ X3\ X4) \tag{2}$$

Assume the following.

$$m1\_subset\_1\ k8\_margrel1\ k6\_margrel1 \tag{3}$$

Assume the following.

$$m1\_subset\_1\ k7\_margrel1\ k6\_margrel1 \tag{4}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v3\_card\_1\ (k1\_binari\_2\ X0)\ X0) \wedge (m2\_finseq\_1\ (k1\_binari\_2\ X0)\ k6\_margrel1)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((X0 = X1) \Rightarrow (k14\_funcop\_1\ X0\ X1\ X2\ X3 = X2)) \wedge ((X0 \neq X1) \Rightarrow (k14\_funcop\_1\ X0\ X1\ X2\ X3 = X3)) \tag{6}$$

Assume the following.

$$k2\_xboolean = np\_\_1 \tag{7}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.((v3\_card\_1\ X1\ X0) \wedge (m2\_finseq\_1\ X1\ k6\_margrel1)) \Rightarrow ((X1 = k1\_binari\_2\ X0) \Leftrightarrow (\forall X2. (v7\_ordinal1\ X2) \Rightarrow ((X2 \in k2\_finseq\_1\ X0) \Rightarrow (k7\_partfun1\ k6\_margrel1\ X1\ X2 = k15\_funcop\_1\ k6\_margrel1\ X2\ np\_\_1\ k8\_margrel1\ k7\_margrel1))))) \tag{8}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (((X1 \in k2\_finseq\_1\ X0) \wedge (X1 = np\_\_1)) \Rightarrow (k7\_partfun1\ k6\_margrel1\ (k1\_binari\_2\ X0)\ X1 = k8\_margrel1)))$$