

## t47\_complsp2

(TMUwrs1HLokvEHujmcSpMA9fHTxhLDexHDw)

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Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_numbers : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_seq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_rsum\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v3\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((m1\_finseq\_1 X0 k2\_numbers) \wedge (m1\_finseq\_1 X1 k2\_numbers)) \Rightarrow (k9\_seq\_4 X0 X1 = k1\_valued\_1 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0) \wedge (v3\_valued\_0 X0) \wedge (v1\_finseq\_1 X0))) \wedge ((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1) \wedge (v3\_valued\_0 X1) \wedge (v1\_finseq\_1 X1))) \Rightarrow (k4\_rsum\_1 X0 X1 = k1\_valued\_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_finseq\_1 X1 X0) \Rightarrow ((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1) \wedge (v1\_finseq\_1 X1)) \quad (4)$$

Assume the following.

$$\forall X0. (m1\_finseq\_1 X0 k1\_numbers) \Rightarrow (v3\_valued\_0 X0) \quad (5)$$

### Theorem 1

$$\begin{aligned} & \forall X0. (m2\_finseq\_1 X0 k2\_numbers) \Rightarrow (\forall X1. (m2\_finseq\_1 X1 k2\_numbers) \Rightarrow (\forall X2. (m2\_finseq\_1 X2 k1\_numbers) \Rightarrow (\forall X3. \\ & (m2\_finseq\_1 X3 k1\_numbers) \Rightarrow (((X0 = X2) \wedge ((X1 = X3) \wedge (k3\_finseq\_1 X0 = k3\_finseq\_1 X3)))) \Rightarrow (k9\_seq\_4 X0 X1 = k4\_rsum\_1 X2 X3)))))) \end{aligned}$$