

# l31\_lfuzzy\_0

(TMcX3Y4TLscs8rsWvL1WDHWAqKa1ijzKgDC)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_lfuzzy\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k17\_borsuk\_1 : \iota$  be given. Let  $k5\_topmetr : \iota$  be given. Let  $v1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v1\_lfuzzy\_0 : \iota \Rightarrow o$  be given. Let  $v2\_lfuzzy\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$u1\_struct\_0 \ k17\_borsuk\_1 = k1\_rcomp\_1 \ k6\_numbers \ np\_1 \quad (1)$$

Assume the following.

$$k5\_topmetr = k17\_borsuk\_1 \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ (u1\_struct\_0 \ k17\_borsuk\_1)) \Rightarrow (m1\_subset\_1 \ X0 \ k1\_numbers) \quad (3)$$

Assume the following.

$$m1\_subset\_1 \ np\_1 \ k1\_numbers \quad (4)$$

Assume the following.

$$m1\_subset\_1 \ k6\_numbers \ k1\_numbers \quad (5)$$

Assume the following.

$$\begin{aligned} & (v1\_orders\_2 \ (k1\_lfuzzy\_0 \ (k1\_rcomp\_1 \ k6\_numbers \ np\_1))) \wedge \\ & (v1\_lfuzzy\_0 \ (k1\_lfuzzy\_0 \ (k1\_rcomp\_1 \ k6\_numbers \ np\_1))) \wedge \\ & (v2\_lfuzzy\_0 \ (k1\_lfuzzy\_0 \ (k1\_rcomp\_1 \ k6\_numbers \ np\_1))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 \ X0) \wedge (v1\_xreal\_0 \ X1)) \Rightarrow (m1\_subset\_1 \ (k1\_rcomp\_1 \ X0 \ X1) \ (k1\_zfmisc\_1 \ k1\_numbers)) \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v1\_orders\_2 (k1\_lfuzzy\_0 X0)) \wedge ((v1\_lfuzzy\_0 (k1\_lfuzzy\_0 X0)) \wedge (l1\_orders\_2 (k1\_lfuzzy\_0 X0)))) \quad (8)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (\forall X1. ((v1\_orders\_2 X1) \wedge ((v1\_lfuzzy\_0 X1) \wedge (l1\_orders\_2 X1))) \Rightarrow ((X1 = k1\_lfuzzy\_0 X0) \Leftrightarrow (u1\_struct\_0 X1 = X0))) \quad (9)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (10)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k1\_lfuzzy\_0 (k1\_rcomp\_1 k6\_numbers np\_1)))) \Rightarrow (m1\_subset\_1 X0 k1\_numbers)$$