

# t17\_abc Miz\_0 (TMSPH MpSFTxD- DPr5xWETgB5AZ1mdu2Awtwc)

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Let  $l2\_abc Miz_0 : \iota \Rightarrow o$  be given. Let  $g2\_abc Miz_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_abc Miz_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Let  $u2\_abc Miz_0 : \iota \Rightarrow \iota$  be given. Let  $u3\_abc Miz_0 : \iota \Rightarrow \iota$  be given. Let  $v10\_abc Miz_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_abc Miz_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub\_1 : \iota \Rightarrow \iota$  be given. Let  $l1\_abc Miz_0 : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k1\_abc Miz_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xbool e\_0 : \iota \Rightarrow o$  be given. Let  $k1\_finsub\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(l2\_abc Miz_0 X0) \Rightarrow (\forall X1.(l2\_abc Miz_0 X1) \Rightarrow (( \\ & \quad g2\_abc Miz_0 (u1\_struct\_0 X0) (u1\_abc Miz_0 X0) (u1\_orders\_2 X0) \\ & \quad (u2\_abc Miz_0 X0) (u3\_abc Miz_0 X0) = g2\_abc Miz_0 (u1\_struct\_0 X1) \\ & \quad (u1\_abc Miz_0 X1) (u1\_orders\_2 X1) (u2\_abc Miz_0 X1) (u3\_abc Miz_0 \\ & \quad X1)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_abc Miz_0 X0)) \Rightarrow (\forall X3. \\ & \quad (m1\_subset\_1 X3 (u1\_abc Miz_0 X1)) \Rightarrow ((X2 = X3) \Rightarrow (k3\_abc Miz_0 X0 X2 = \\ & \quad k3\_abc Miz_0 X1 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.((m1\_subset\_1 \\ & \quad X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \wedge (((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 \\ & \quad X3 X1 X1) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X1)))) \wedge \\ & \quad ((v1\_funct\_1 X4) \wedge ((v1\_funct\_2 X4 X0 (k5\_finsub\_1 X1)) \wedge (m1\_subset\_1 \\ & \quad X4 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 (k5\_finsub\_1 X1))))))) \Rightarrow (\forall X5. \\ & \quad \forall X6.\forall X7.\forall X8.\forall X9.(g2\_abc Miz_0 X0 X1 \\ & \quad X2 X3 X4 = g2\_abc Miz_0 X5 X6 X7 X8 X9) \Rightarrow ((X0 = X5) \wedge ((X1 = X6) \wedge ((X2 = X7) \wedge \\ & \quad ((X3 = X8) \wedge (X4 = X9)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.(l2\_abcmiz\_0 X0) \Rightarrow & ((v1\_funct\_1 (u3\_abcmiz\_0 X0)) \wedge \\ & ((v1\_funct\_2 (u3\_abcmiz\_0 X0) (u1\_struct\_0 X0) (k5\_finsub\_1 ( \\ & u1\_abcmiz\_0 X0))) \wedge (m1\_subset\_1 (u3\_abcmiz\_0 X0) (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 (u1\_struct\_0 X0) (k5\_finsub\_1 (u1\_abcmiz\_0 X0))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1\_abcmiz\_0 X0) \Rightarrow & ((v1\_funct\_1 (u2\_abcmiz\_0 X0)) \wedge \\ & ((v1\_funct\_2 (u2\_abcmiz\_0 X0) (u1\_abcmiz\_0 X0) (u1\_abcmiz\_0 X0)) \wedge \\ & (m1\_subset\_1 (u2\_abcmiz\_0 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_abcmiz\_0 \\ & X0) (u1\_abcmiz\_0 X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (m1\_subset\_1 (u1\_orders\_2 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_struct\_0 X0) (u1\_struct\_0 X0)))) \quad (5)$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow ((l1\_orders\_2 X0) \wedge (l1\_abcmiz\_0 X0)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((l1\_abcmiz\_0 X0) \wedge (m1\_subset\_1 X1 (u1\_abcmiz\_0 X0))) \Rightarrow (m1\_subset\_1 (k1\_abcmiz\_0 X0 X1) (u1\_abcmiz\_0 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(l1\_abcmiz\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_abcmiz\_0 X0)) \Rightarrow (k1\_abcmiz\_0 X0 X1 = k1\_funct\_1 (u2\_abcmiz\_0 X0) X1)) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.(l2\_abcmiz\_0 X0) \Rightarrow & ((v10\_abcmiz\_0 X0) \Leftrightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_abcmiz\_0 X0)) \Rightarrow (\neg v1\_xboole\_0 (k1\_finsub\_1 \\ & (k1\_zfmisc\_1 (u1\_struct\_0 X0) (k3\_abcmiz\_0 X0 X1) (k3\_abcmiz\_0 \\ & X0 (k1\_abcmiz\_0 X0 X1)))))) \end{aligned} \quad (9)$$

### Theorem 1

$$\begin{aligned} \forall X0.(l2\_abcmiz\_0 X0) \Rightarrow & (\forall X1.(l2\_abcmiz\_0 X1) \Rightarrow (( \\ & (g2\_abcmiz\_0 (u1\_struct\_0 X0) (u1\_abcmiz\_0 X0) (u1\_orders\_2 X0) \\ & (u2\_abcmiz\_0 X0) (u3\_abcmiz\_0 X0) = g2\_abcmiz\_0 (u1\_struct\_0 X1) \\ & (u1\_abcmiz\_0 X1) (u1\_orders\_2 X1) (u2\_abcmiz\_0 X1) (u3\_abcmiz\_0 \\ & X1)) \wedge (v10\_abcmiz\_0 X0) \Rightarrow (v10\_abcmiz\_0 X1))) \end{aligned}$$