

## t40\_descip\_1

(TMT7uW9GhpFtLp9gXT2Qu3QPjeF69s7PW38)

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Let  $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_margrel1 : \iota$  be given. Let  $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_64 : \iota$  be given. Let  $k43\_descip\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k42\_descip\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_48 : \iota$  be given. Let  $np\_16 : \iota$  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  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_32 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k41\_descip\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_descip\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k26\_descip\_1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k39\_descip\_1 : \iota \Rightarrow \iota$  be given. Let  $k35\_descip\_1 : \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m2\_finseq\_2 X0 (k4\_finseq\_2 np\_48 k6\_margrel1) ( \\
 & \quad k4\_finseq\_2 np\_16 (k4\_finseq\_2 np\_48 k6\_margrel1))) \Rightarrow (\forall X1. \\
 & ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 (k2\_zfmisc\_1 (k4\_finseq\_2 np\_32 \\
 & \quad k6\_margrel1) (k4\_finseq\_2 np\_48 k6\_margrel1)) (k4\_finseq\_2 \\
 & \quad np\_32 k6\_margrel1)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\
 & \quad (k2\_zfmisc\_1 (k4\_finseq\_2 np\_32 k6\_margrel1) (k4\_finseq\_2 np\_48 \\
 & \quad k6\_margrel1)) (k4\_finseq\_2 np\_32 k6\_margrel1)))))) \Rightarrow (\forall X2. \\
 & ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 (k4\_finseq\_2 np\_64 k6\_margrel1) \\
 & \quad (k4\_finseq\_2 np\_64 k6\_margrel1)) \wedge ((v3\_funct\_2 X2 (k4\_finseq\_2 \\
 & \quad np\_64 k6\_margrel1) (k4\_finseq\_2 np\_64 k6\_margrel1)) \wedge (m1\_subset\_1 \\
 & \quad X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k4\_finseq\_2 np\_64 k6\_margrel1) \\
 & \quad (k4\_finseq\_2 np\_64 k6\_margrel1)))))) \Rightarrow (\forall X3.(m2\_finseq\_2 \\
 & \quad X3 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow (k41\_descip\_1 \\
 & \quad (k1\_descip\_1 (k4\_finseq\_2 np\_48 k6\_margrel1) np\_16 X0) X1 X2 \\
 & \quad (k41\_descip\_1 X0 X1 X2 X3) = X3)))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & ((v2\_xreal\_0 \ np\_64) \wedge (m2\_subset\_1 \ np\_64 \ k1\_numbers \ k5\_numbers)) \wedge \\ & ((m1\_subset\_1 \ np\_64 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_64 \ k1\_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_finseq\_2 \ X1 \ X0) \Rightarrow (\forall X2. (m2\_finseq\_2 \ X2 \ X0 \ X1) \Leftrightarrow (m1\_subset\_1 \ X2 \ X1)) \quad (3)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (4)$$

Assume the following.

$$\begin{aligned} & (v1\_funct\_1 \ k26\_descip\_1) \wedge ((v1\_funct\_2 \ k26\_descip\_1 \ (k4\_finseq\_2 \\ & \ np\_64 \ k6\_margrel1) \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1)) \wedge (v3\_funct\_2 \\ & \ k26\_descip\_1 \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1) \ (k4\_finseq\_2 \ np\_64 \\ & \ k6\_margrel1))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (v7\_ordinal1 \ X0) \Rightarrow (m1\_finseq\_2 \ (k4\_finseq\_2 \ X0 \ X1) \ X1) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 \ X0 \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1)) \wedge \\ & (m1\_subset\_1 \ X1 \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1))) \Rightarrow (m2\_finseq\_2 \\ & (k42\_descip\_1 \ X0 \ X1) \ k6\_margrel1 \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 \ X0 \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1)) \Rightarrow \\ & (m2\_finseq\_2 \ (k39\_descip\_1 \ X0) \ (k4\_finseq\_2 \ np\_48 \ k6\_margrel1) \\ & (k4\_finseq\_2 \ np\_16 \ (k4\_finseq\_2 \ np\_48 \ k6\_margrel1))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & (v1\_funct\_1 \ k35\_descip\_1) \wedge ((v1\_funct\_2 \ k35\_descip\_1 \ (k2\_zfmisc\_1 \\ & \ (k4\_finseq\_2 \ np\_32 \ k6\_margrel1) \ (k4\_finseq\_2 \ np\_48 \ k6\_margrel1)) \\ & \ (k4\_finseq\_2 \ np\_32 \ k6\_margrel1)) \wedge (m1\_subset\_1 \ k35\_descip\_1 \\ & \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ (k2\_zfmisc\_1 \ (k4\_finseq\_2 \ np\_32 \ k6\_margrel1) \\ & \ (k4\_finseq\_2 \ np\_48 \ k6\_margrel1)) \ (k4\_finseq\_2 \ np\_32 \ k6\_margrel1)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & (v1\_funct\_1 \ k26\_descip\_1) \wedge ((v1\_funct\_2 \ k26\_descip\_1 \ (k4\_finseq\_2 \\ & \ np\_64 \ k6\_margrel1) \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1)) \wedge (m1\_subset\_1 \\ & \ k26\_descip\_1 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1) \\ & \ (k4\_finseq\_2 \ np\_64 \ k6\_margrel1)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m2\_finseq\_2 X0 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow \\
& (\forall X1.(m2\_finseq\_2 X1 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow \\
& (k43\_descip\_1 X0 X1 = k41\_descip\_1 (k1\_descip\_1 (k4\_finseq\_2 np\_48 \\
& k6\_margrel1) np\_16 (k39\_descip\_1 X1)) k35\_descip\_1 k26\_descip\_1 \\
& X0))
\end{aligned} \tag{11}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m2\_finseq\_2 X0 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow \\
& (\forall X1.(m2\_finseq\_2 X1 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow \\
& (k42\_descip\_1 X0 X1 = k41\_descip\_1 (k39\_descip\_1 X1) k35\_descip\_1 \\
& k26\_descip\_1 X0))
\end{aligned} \tag{12}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \tag{13}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0.(m2\_finseq\_2 X0 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow \\
& (\forall X1.(m2\_finseq\_2 X1 k6\_margrel1 (k4\_finseq\_2 np\_64 k6\_margrel1)) \Rightarrow \\
& (k43\_descip\_1 (k42\_descip\_1 X0 X1) X1 = X0))
\end{aligned}$$