

thm_2Equotient_list_LENGTH_PRS
(TMGcQk2cSP8U6n15QCG3wdtTNiz3yr4ndU3)

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Definition 1 We define $c_2Emin_2E_3D$ to be $\lambda A. \lambda x \in A. \lambda y \in A. inj_o (x = y)$ of type $\iota \rightarrow \iota$.

Definition 2 We define $c_2Emin_2E_3D_3D_3E$ to be $\lambda P \in 2.\lambda Q \in 2.inj_o (p\ P \Rightarrow p\ Q)$ of type ι .

Definition 3 We define c_Ebool_ET to be $(ap \ (ap \ (c_Emin_3D \ (2^2)) \ (\lambda V0x \in 2.V0x)) \ (\lambda V1x \in 2.V1x))$

Definition 4 We define $c_2Ebool_2E_21$ to be $\lambda A.27a : \iota.(\lambda V0P \in (2^{A-27a}).(ap\ (ap\ (c_2Emin_2E_3D\ (2^{A-27a}\ (V0P))))\ P))$

Definition 5 We define $c_2Ebool_2E_2F_5C$ to be $(\lambda V0t1 \in 2.(\lambda V1t2 \in 2.(ap(c_2Ebool_2E_21 2))(\lambda V2t \in 2.$

Definition 6 We define $c_2Equotient_2EQUOTIENT$ to be $\lambda A_{27a} : \iota.\lambda A_{27b} : \iota.\lambda V0R \in ((2^{A_{27a}})^{A_{27a}}).\lambda V$

Let $ty_2Enum_2Enum : \iota$ be given. Assume the following.

nonempty ty_2Enum_2Enum

$_2Enum_2EBER_num \in \{capacity_2Enum_2Enum$

²EGUCHI, DEP, and others, *Am J Pathol*, the following year.

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For more information about the program, please visit the following:

$$\text{SPLITTER}_{\text{RAM}} \in (\text{SPLITTER}_{\text{RAM}}) \quad (1)$$

(-)

Definition 7 We define c2Eham-2Esoc to be $\lambda V\;Sm \in tg_\text{2Eham-2Eham}.\;(\text{ap}\;c_\text{2Eham-2EADS_ham}\;V)$

Let $\text{S} \subseteq \text{NAMELIST}(\text{FILE})$ be given. Assume the following:

$$c_{ZERI} \dots c_{ZERI} \in \omega \quad (5)$$

(3)

Definition 8 We define c_2Enum_2E0 to be $(ap\ c_2Enum_2EABS_num\ c_2Enum_2EZERO_REP)$.

Let $ty_2Elist_2Elist : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall A_0. nonempty\ A_0 \Rightarrow nonempty\ (ty_2Elist_2Elist\ A_0) \quad (6)$$

Let $c_2Elist_2ELENGTH : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall A_{27a}. nonempty\ A_{27a} \Rightarrow c_2Elist_2ELENGTH\ A_{27a} \in (ty_2Enum_2Enum^{(ty_2Elist_2Elist\ A_{27a})}) \quad (7)$$

Let $c_2Elist_2EMAP : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall A_{27a}. nonempty\ A_{27a} \Rightarrow \forall A_{27b}. nonempty\ A_{27b} \Rightarrow c_2Elist_2EMAP\ A_{27a}\ A_{27b} \in (((ty_2Elist_2Elist\ A_{27b})^{(ty_2Elist_2Elist\ A_{27a})})^{(A_{27b}^{A_{27a}})}) \quad (8)$$

Let $c_2Elist_2ECONS : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall A_{27a}. nonempty\ A_{27a} \Rightarrow c_2Elist_2ECONS\ A_{27a} \in (((ty_2Elist_2Elist\ A_{27a})^{(ty_2Elist_2Elist\ A_{27a})})^{(A_{27a})}) \quad (9)$$

Let $c_2Elist_2ENIL : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall A_{27a}. nonempty\ A_{27a} \Rightarrow c_2Elist_2ENIL\ A_{27a} \in (ty_2Elist_2Elist\ A_{27a}) \quad (10)$$

Assume the following.

$$True \quad (11)$$

Assume the following.

$$\forall A_{27a}. nonempty\ A_{27a} \Rightarrow (\forall V0t \in 2. ((\forall V1x \in A_{27a}. (p\ V0t)) \Leftrightarrow (p\ V0t))) \quad (12)$$

Assume the following.

$$\forall A_{27a}. nonempty\ A_{27a} \Rightarrow (\forall V0x \in A_{27a}. ((V0x = V0x) \Leftrightarrow True)) \quad (13)$$

Assume the following.

$$\begin{aligned} \forall A_{27a}. nonempty\ A_{27a} \Rightarrow & (((ap\ (c_2Elist_2ELENGTH\ A_{27a}) \\ & (c_2Elist_2ENIL\ A_{27a})) = c_2Enum_2E0) \wedge (\forall V0h \in A_{27a}. (\\ & \forall V1t \in (ty_2Elist_2Elist\ A_{27a}). ((ap\ (c_2Elist_2ELENGTH \\ & A_{27a})\ (ap\ (ap\ (c_2Elist_2ECONS\ A_{27a})\ V0h)\ V1t)) = (ap\ c_2Enum_2ESUC \\ & (ap\ (c_2Elist_2ELENGTH\ A_{27a})\ V1t)))))) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned}
 & \forall A_27a.\text{nonempty } A_27a \Rightarrow \forall A_27b.\text{nonempty } A_27b \Rightarrow \\
 & (\forall V0f \in (A_27b^{A_27a}).((ap (ap (c_2Elist_2EMAP A_27a A_27b) \\
 & V0f) (c_2Elist_2ENIL A_27a)) = (c_2Elist_2ENIL A_27b))) \wedge (\forall V1f \in \\
 & (A_27b^{A_27a}).(\forall V2h \in A_27a.(\forall V3t \in (ty_2Elist_2Elist \\
 & A_27a).((ap (ap (c_2Elist_2EMAP A_27a A_27b) V1f) (ap (ap (c_2Elist_2ECONS \\
 & A_27a) V2h) V3t)) = (ap (ap (c_2Elist_2ECONS A_27b) (ap V1f V2h)) \\
 & (ap (ap (c_2Elist_2EMAP A_27a A_27b) V1f) V3t)))))))
 \end{aligned} \tag{15}$$

Assume the following.

$$\begin{aligned}
 & \forall A_27a.\text{nonempty } A_27a \Rightarrow (\forall V0P \in (2^{(ty_2Elist_2Elist A_27a)}). \\
 & (((p (ap V0P (c_2Elist_2ENIL A_27a))) \wedge (\forall V1t \in (ty_2Elist_2Elist \\
 & A_27a).(p (ap V0P V1t)) \Rightarrow (\forall V2h \in A_27a.(p (ap V0P (ap (ap \\
 & c_2Elist_2ECONS A_27a) V2h) V1t)))))) \Rightarrow (\forall V3l \in (ty_2Elist_2Elist \\
 & A_27a).(p (ap V0P V3l))))))
 \end{aligned} \tag{16}$$

Theorem 1

$$\begin{aligned}
 & \forall A_27a.\text{nonempty } A_27a \Rightarrow \forall A_27b.\text{nonempty } A_27b \Rightarrow \\
 & \forall V0R \in ((2^{A_27a})^{A_27a}).(\forall V1abs \in (A_27b^{A_27a}). \\
 & (\forall V2rep \in (A_27a^{A_27b}).((p (ap (ap (ap (c_2Equotient_2EQUOTIENT \\
 & A_27a A_27b) V0R) V1abs) V2rep)) \Rightarrow (\forall V3l \in (ty_2Elist_2Elist \\
 & A_27b).((ap (c_2Elist_2ELENGTH A_27b) V3l) = (ap (c_2Elist_2ELENGTH \\
 & A_27a) (ap (ap (c_2Elist_2EMAP A_27b A_27a) V2rep) V3l)))))))
 \end{aligned}$$