t26_yellow_6 (TMVB-bVk56Em3tHKnDpCmH3g7NeuySVyx7j9)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v7\_waybel\_0 : \iota \Rightarrow o$ be given. Let $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m3\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k8\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k12\_pralg\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $g1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $u1\_orders\_2 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_yellow\_1 : \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $k5\_yellow\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))) \Rightarrow (\forall X2.\forall X3.(g1\_orders\_2\ X0\ X1 = g1\_orders\_2\ X2\ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (m1\_subset\_1\ (u1\_orders\_2\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_struct\_0\ X1) \Rightarrow (\forall X2.(m3\_yellow\_6\ X2\ X0\ X1) \Rightarrow ((v1\_relat\_1\ X2) \wedge ((v4\_relat\_1\ X2\ X0) \wedge ((v1\_funct\_1\ X2) \wedge (v1\_partfun1\ X2\ X0))))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0) \Rightarrow (\forall X1.(l1\_waybel\_0\ X1\ X0) \Rightarrow (l1\_orders\_2\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\wedge(((\neg v2\_struct\_0\ X1)\wedge((v4\_orders\_2\ X1)\wedge((v7\_waybel\_0\ X1)\wedge(l1\_waybel\_0\ X1\ X0))))\wedge(m3\_yellow\_6\ X2\ (u1\_struct\_0\ X1)\ X0)))\Rightarrow((\neg v2\_struct\_0\ (k8\_yellow\_6\ X0\ X1\ X2))\wedge((v4\_orders\_2\ (k8\_yellow\_6\ X0\ X1\ X2))\wedge((v6\_waybel\_0\ (k8\_yellow\_6\ X0\ X1\ X2)\ X0)\wedge((v7\_waybel\_0\ (k8\_yellow\_6\ X0\ X1\ X2))\wedge(l1\_waybel\_0\ (k8\_yellow\_6\ X0\ X1\ X2)\ X0)))))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge((v4\_relat\_1\ X1\ X0)\wedge((v1\_funct\_1\ X1)\wedge((v1\_partfun1\ X1\ X0)\wedge(v1\_yellow\_1\ X1)))))\Rightarrow((v1\_orders\_2\ (k5\_yellow\_1\ X0\ X1))\wedge(l1\_orders\_2\ (k5\_yellow\_1\ X0\ X1))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_orders\_2\ X0)\wedge(l1\_orders\_2\ X1))\Rightarrow((v1\_orders\_2\ (k3\_yellow\_3\ X0\ X1))\wedge(l1\_orders\_2\ (k3\_yellow\_3\ X0\ X1))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)))\Rightarrow((v1\_orders\_2\ (g1\_orders\_2\ X0\ X1))\wedge(l1\_orders\_2\ (g1\_orders\_2\ X0\ X1))) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge((v4\_relat\_1\ X1\ X0)\wedge((v1\_funct\_1\ X1)\wedge((v1\_partfun1\ X1\ X0)\wedge(v1\_yellow\_1\ X1)))))\Rightarrow(\forall X2.((v1\_orders\_2\ X2)\wedge(l1\_orders\_2\ X2))\Rightarrow((X2 = k5\_yellow\_1\ X0\ X1)\Leftrightarrow((u1\_struct\_0\ X2 = k4\_card\_3\ (k12\_pralg\_1\ X0\ X1))\wedge(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X2))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X2))\Rightarrow((X3 \in k4\_card\_3\ (k12\_pralg\_1\ X0\ X1))\Rightarrow((r1\_orders\_2\ X2\ X3\ X4)\Leftrightarrow(\exists X5.((v1\_relat\_1\ X5)\wedge(v1\_funct\_1\ X5))\wedge(\exists X6.((v1\_relat\_1\ X6)\wedge(v1\_funct\_1\ X6))\wedge((X5 = X3)\wedge((X6 = X4)\wedge(\forall X7.\neg(X7 \in X0)\wedge(\forall X8.(l1\_orders\_2\ X8)\Rightarrow(\forall X9.(m1\_subset\_1\ X9\ (u1\_struct\_0\ X8))\Rightarrow(\forall X10.(m1\_subset\_1\ X10\ (u1\_struct\_0\ X8))\Rightarrow(\neg(X8 = k1\_funct\_1\ X1\ X7)\wedge((X9 = k1\_funct\_1\ X5\ X7)\wedge((X10 = k1\_funct\_1\ X6\ X7)\wedge(r1\_orders\_2\ X8\ X9\ X10)))))))))))))))))))))))) \tag{9}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(l1\_orders\_2\ X1)\Rightarrow(\forall X2.((v1\_orders\_2\ X2)\wedge(l1\_orders\_2\ X2))\Rightarrow((X2 = k3\_yellow\_3\ X0\ X1)\Leftrightarrow((u1\_struct\_0\ X2 = k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\wedge(u1\_orders\_2\ X2 = k2\_yellow\_3\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_orders\_2\ X0)\ (u1\_orders\_2\ X1))))))) \tag{10}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v4\_orders\_2\ X1)\wedge((v7\_waybel\_0\ X1)\wedge(l1\_waybel\_0\ X1\ X0))))\Rightarrow(\forall X2.(m3\_yellow\_6\ X2\ (u1\_struct\_0\ X1)\ X0)\Rightarrow(\forall X3.((\neg v2\_struct\_0\ X3)\wedge((v4\_orders\_2\ X3)\wedge((v6\_waybel\_0\ X3\ X0)\wedge((v7\_waybel\_0\ X3)\wedge(l1\_waybel\_0\ X3\ X0)))))\Rightarrow((X3 = k8\_yellow\_6\ X0\ X1\ X2)\Leftrightarrow((g1\_orders\_2\ (u1\_struct\_0\ X3)\ (u1\_orders\_2\ X3) = k3\_yellow\_3\ X1\ (k5\_yellow\_1\ (u1\_struct\_0\ X1)\ X2))\wedge(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X1))\Rightarrow(\forall X5.((v1\_relat\_1\ X5)\wedge(v1\_funct\_1\ X5))\Rightarrow(((X4 \in u1\_struct\_0\ X1)\wedge(X5 \in u1\_struct\_0\ (k5\_yellow\_1\ (u1\_struct\_0\ X1)\ X2)))\Rightarrow(k1\_binop\_1\ (u1\_waybel\_0\ X0\ X3)\ X4\ X5 = k1\_funct\_1\ (u1\_waybel\_0\ X0\ (k7\_yellow\_6\ (u1\_struct\_0\ X1)\ X0\ X2\ X4))\ (k1\_funct\_1\ X5\ X4)))))))))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_struct\_0\ X1)\Rightarrow(\forall X2.(m3\_yellow\_6\ X2\ X0\ X1)\Rightarrow(v1\_yellow\_1\ X2)) \tag{12}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow((v1\_orders\_2\ X0)\Rightarrow(X0 = g1\_orders\_2\ (u1\_struct\_0\ X0)\ (u1\_orders\_2\ X0))) \tag{13}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v4\_orders\_2\ X1)\wedge((v7\_waybel\_0\ X1)\wedge(l1\_waybel\_0\ X1\ X0))))\Rightarrow(\forall X2.(m3\_yellow\_6\ X2\ (u1\_struct\_0\ X1)\ X0)\Rightarrow(u1\_struct\_0\ (k8\_yellow\_6\ X0\ X1\ X2) = k2\_zfmisc\_1\ (u1\_struct\_0\ X1)\ (k4\_card\_3\ (k12\_pralg\_1\ (u1\_struct\_0\ X1)\ X2)))))$$