

t28_turing_1

(TMQzg7pCQWGpQ2CrgyDGQTfHC9eMv6zSSdK)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k15_comput_1 : \iota$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v4_valued_0 : \iota \Rightarrow o$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_3 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v2_comput_1 : \iota \Rightarrow o$ be given. Let $k4_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v8_comput_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_comput_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((\neg v1_xboole_0 \\ & X1) \wedge ((v1_relat_1 X1) \wedge ((v4_relat_1 X1 (k3_finseq_2 k5_numbers)) \wedge \\ & ((v1_funct_1 X1) \wedge ((v4_valued_0 X1) \wedge (v2_margrel1 X1)))))) \Rightarrow (\\ & \quad \forall X2.((\neg v1_xboole_0 X2) \wedge ((v1_relat_1 X2) \wedge ((v4_relat_1 \\ & X2 (k3_finseq_2 k5_numbers)) \wedge ((v1_funct_1 X2) \wedge ((v4_valued_0 \\ & X2) \wedge (v2_margrel1 X2)))))) \Rightarrow (r1_tarski (k1_relset_1 (k3_finseq_2 \\ & k5_numbers) (k7_comput_1 X1 X2 X0)) (k4_finseq_2 (k2_nat_1 (k19_margrel1 \\ & X1) np_1) k5_numbers)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (k19_margrel1 (k5_comput_1 X0 X1) = X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_3) \wedge (m2_subset_1 np_3 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_3 k5_numbers) \wedge (m1_subset_1 np_3 k1_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_1 = np_2 \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \ X0 \ k5_numbers) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k2_nat_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 \ X1) \wedge (v4_relat_1 \ X1 \ X0)) \Rightarrow (k1_relset_1 \ X0 \ X1 = k9_xtuple_0 \ X1) \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 \ X0 \ k5_numbers) \wedge (m1_subset_1 \\ & X1 \ k5_numbers)) \Rightarrow ((\neg v1_xboole_0 \ (k5_comput_1 \ X0 \ X1)) \wedge ((v1_relat_1 \\ & (k5_comput_1 \ X0 \ X1)) \wedge ((v4_relat_1 \ (k5_comput_1 \ X0 \ X1) \ (k3_finseq_2 \\ & k5_numbers)) \wedge ((v1_funct_1 \ (k5_comput_1 \ X0 \ X1)) \wedge ((v4_valued_0 \\ & (k5_comput_1 \ X0 \ X1)) \wedge ((v2_margrel1 \ (k5_comput_1 \ X0 \ X1)) \wedge (v2_comput_1 \\ & (k5_comput_1 \ X0 \ X1)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ k5_numbers) \Rightarrow ((v1_relat_1 \ (k4_comput_1 \\ & np_3 \ X0)) \wedge ((v4_relat_1 \ (k4_comput_1 \ np_3 \ X0) \ (k3_finseq_2 \ k5_numbers)) \wedge \\ & ((v1_funct_1 \ (k4_comput_1 \ np_3 \ X0)) \wedge ((v4_valued_0 \ (k4_comput_1 \\ & np_3 \ X0)) \wedge ((v2_margrel1 \ (k4_comput_1 \ np_3 \ X0)) \wedge (v8_comput_1 \\ & (k4_comput_1 \ np_3 \ X0 \ np_3)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & (v1_relat_1 \ (k4_comput_1 \ np_3 \ np_3)) \wedge ((v4_relat_1 \ (k4_comput_1 \\ & np_3 \ np_3) \ (k3_finseq_2 \ k5_numbers)) \wedge ((v1_funct_1 \ (k4_comput_1 \\ & np_3 \ np_3)) \wedge ((v4_valued_0 \ (k4_comput_1 \ np_3 \ np_3)) \wedge ((v2_margrel1 \\ & (k4_comput_1 \ np_3 \ np_3)) \wedge (v7_comput_1 \ (k4_comput_1 \ np_3 \ np_3)))))) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_subset_1 X0 k5_numbers)\wedge(m1_subset_1 \\ X1 k5_numbers))\Rightarrow((v1_relat_1 (k5_comput_1 X0 X1))\wedge((v4_relat_1 \\ (k5_comput_1 X0 X1) (k3_finseq_2 k5_numbers))\wedge((v1_funct_1 (\\ k5_comput_1 X0 X1))\wedge((v4_valued_0 (k5_comput_1 X0 X1))\wedge(v2_margrel1 \\ (k5_comput_1 X0 X1)))))) \end{aligned} \quad (13)$$

Assume the following.

$$(v1_relat_1 k15_comput_1)\wedge((v1_funct_1 k15_comput_1)\wedge((v7_comput_1 \\ k15_comput_1)\wedge(v8_comput_1 k15_comput_1 np_2))) \quad (14)$$

Assume the following.

$$k15_comput_1 = k7_comput_1 (k5_comput_1 np_1 np_1) (k4_comput_1 \\ np_3 np_3) np_2 \quad (15)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (16)$$

Assume the following.

$$\forall X0.((v1_xboole_0 X0)\wedge(v1_relat_1 X0))\Rightarrow((v1_relat_1 \\ X0)\wedge(v2_margrel1 X0)) \quad (17)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge((v2_margrel1 \\ X0)\wedge(v8_comput_1 X0 np_3))))\Rightarrow((\neg v1_xboole_0 X0)\wedge((v1_relat_1 \\ X0)\wedge((v1_funct_1 X0)\wedge(v2_margrel1 X0)))) \quad (18)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge(v7_comput_1 X0))\Rightarrow((v1_relat_1 \\ X0)\wedge((v4_relat_1 X0 (k3_finseq_2 k5_numbers))\wedge((v4_valued_0 \\ X0)\wedge(v2_margrel1 X0)))) \quad (19)$$

Assume the following.

$$\forall X0.(v7_comput_1 X0)\Rightarrow((v1_relat_1 X0)\wedge(v1_funct_1 X0)) \quad (20)$$

Theorem 1 $r1_tarski (k9_xtuple_0 k15_comput_1) (k4_finseq_2 np_2 k5_numbers)$.