

# l2\_fib\_fusc (TMJMQEgT- nXFEZ6pBBtEQon2XTZC1v7KSUYd)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_int\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_6 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $np\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k4\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((r1\_xreal\_0 X1 X0) \Rightarrow (r1\_xreal\_0 (k1\_int\_1 X1) (k1\_int\_1 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(X0 \in X1) \wedge ((m1\_subset\_1 X1 (k1\_zfmisc\_1 X2)) \wedge (v1\_xboole\_0 X2)) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\neg(\neg(r1\_xreal\_0 X0 k6\_numbers) \wedge (X0 \neq np\_1) \wedge (k5\_power X0 np\_1 \neq k6\_numbers))) \quad (4)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow ((r1\_xreal\_0 k6\_numbers X0) \Rightarrow (X0 \in k5\_numbers)) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow ((k1\_int\_1 X0 = X0) \Leftrightarrow (v1\_int\_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (7)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow ((\neg r1\_xxreal\_0 (k1\_nat\_1 X1 np\_1) X0) \Leftrightarrow (r1\_xxreal\_0 X0 X1))) \quad (8)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (\forall X2.(v7\_ordinal1 X2) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (r1\_xxreal\_0 X0 (k2\_xcmplx\_0 X1 X2)))))) \quad (9)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2.(v1\_xreal\_0 X2) \Rightarrow ((r1\_xxreal\_0 X1 X2) \Rightarrow ((r1\_xxreal\_0 X0 np\_1) \vee ((r1\_xxreal\_0 X1 k6\_numbers) \vee (r1\_xxreal\_0 (k5\_power X0 X1) (k5\_power X0 X2))))))) \quad (10)$$

Assume the following.

$$((v2\_xxreal\_0 np\_6) \wedge (m2\_subset\_1 np\_6 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_6 k5\_numbers) \wedge (m1\_subset\_1 np\_6 k1\_numbers)) \quad (11)$$

Assume the following.

$$((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \quad (12)$$

Assume the following.

$$((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \quad (13)$$

Assume the following.

$$v1\_xboole\_0 np\_0 \quad (14)$$

Assume the following.

$$k2\_xcmplx\_0 np\_1 np\_1 = np\_2 \quad (15)$$

Assume the following.

$$k2\_xcmplx\_0 np\_0 np\_1 = np\_1 \quad (16)$$

Assume the following.

$$\neg r1\_xreal\_0 \ np\_2 \ np\_1 \tag{17}$$

Assume the following.

$$\neg r1\_xreal\_0 \ np\_2 \ np\_0 \tag{18}$$

Assume the following.

$$r1\_xreal\_0 \ np\_1 \ np\_1 \tag{19}$$

Assume the following.

$$\neg r1\_xreal\_0 \ np\_1 \ np\_0 \tag{20}$$

Assume the following.

$$r1\_xreal\_0 \ np\_0 \ np\_2 \tag{21}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((\neg v1\_xboole\_0 \ X0)\wedge((\neg v1\_xboole\_0 \ X1)\wedge \\ (m1\_subset\_1 \ X1 \ (k1\_zfmisc\_1 \ X0))))\Rightarrow(\forall X2.(m2\_subset\_1 \\ X2 \ X0 \ X1)\Leftrightarrow(m1\_subset\_1 \ X2 \ X1)) \end{aligned} \tag{22}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{23}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{24}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1\_subset\_1 \ X0 \ k5\_numbers)\wedge(v7\_ordinal1 \\ X1))\Rightarrow(k4\_nat\_1 \ X0 \ X1 = k3\_xcmplx\_0 \ X0 \ X1) \end{aligned} \tag{25}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1\_subset\_1 \ X0 \ k5\_numbers)\wedge(v7\_ordinal1 \\ X1))\Rightarrow(k2\_nat\_1 \ X0 \ X1 = k2\_xcmplx\_0 \ X0 \ X1) \end{aligned} \tag{26}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v7\_ordinal1 \ X0)\wedge(m1\_subset\_1 \ X1 \ k5\_numbers))\Rightarrow \\ (k1\_nat\_1 \ X0 \ X1 = k2\_xcmplx\_0 \ X0 \ X1) \end{aligned} \tag{27}$$

Assume the following.

$$(\neg v1\_xboole\_0 \ k4\_ordinal1)\wedge(v3\_ordinal1 \ k4\_ordinal1) \tag{28}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1\_xreal\_0 \ X0)\wedge(v1\_xreal\_0 \ X1))\Rightarrow(v1\_xreal\_0 \\ (k5\_power \ X0 \ X1)) \end{aligned} \tag{29}$$

Assume the following.

$$m1\_subset\_1 \ k5\_numbers \ (k1\_zfmisc\_1 \ k1\_numbers) \quad (30)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 \ X0 \ k5\_numbers)\wedge(v7\_ordinal1 \ X1))\Rightarrow(m2\_subset\_1 \ (k4\_nat\_1 \ X0 \ X1) \ k1\_numbers \ k5\_numbers) \quad (31)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 \ X0 \ k5\_numbers)\wedge(v7\_ordinal1 \ X1))\Rightarrow(m2\_subset\_1 \ (k2\_nat\_1 \ X0 \ X1) \ k1\_numbers \ k5\_numbers) \quad (32)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 \ X0)\wedge(m1\_subset\_1 \ X1 \ k5\_numbers))\Rightarrow(m2\_subset\_1 \ (k1\_nat\_1 \ X0 \ X1) \ k1\_numbers \ k5\_numbers) \quad (33)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0)\Rightarrow(v1\_int\_1 \ (k1\_int\_1 \ X0)) \quad (34)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 \ X0)\wedge(v1\_xcmplx\_0 \ X1))\Rightarrow(k2\_xcmplx\_0 \ X0 \ X1 = k2\_xcmplx\_0 \ X1 \ X0) \quad (35)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k4\_ordinal1)\Rightarrow(v7\_ordinal1 \ X0) \quad (36)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0)\Rightarrow(v7\_ordinal1 \ X0) \quad (37)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0)\Rightarrow(v1\_xcmplx\_0 \ X0) \quad (38)$$

Assume the following.

$$\forall X0.(v1\_int\_1 \ X0)\Rightarrow(v1\_xreal\_0 \ X0) \quad (39)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 \ X0)\Rightarrow(v1\_xreal\_0 \ X0) \quad (40)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 \ X0)\Rightarrow(v1\_int\_1 \ X0) \quad (41)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers)\Rightarrow(v1\_xreal\_0 \ X0) \quad (42)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 \ X0 \ k5\_numbers)\Rightarrow((\neg r1\_xreal\_0 \ X0 \ k6\_numbers)\Rightarrow((m1\_subset\_1 \ (k1\_int\_1 \ (k5\_power \ np\_2 \ X0)) \ k5\_numbers)\wedge(\neg r1\_xreal\_0 \ (k2\_xcmplx\_0 \ (k3\_xcmplx\_0 \ np\_6 \ (k2\_xcmplx\_0 \ (k1\_int\_1 \ (k5\_power \ np\_2 \ X0)) \ np\_1)) \ np\_1) \ k6\_numbers)))$$