

# t11\_radix\_1

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_radix\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_radix\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (k2\_radix\_1 X0 = ReplSep (toset (\lambda X1 : \\ \iota.m1\_subset\_1 X1 k4\_numbers)) (\lambda X1 : \iota.(r1\_xxreal\_0 X1 \\ (k6\_xcmplx\_0 (k1\_radix\_1 X0) np\_1)) \wedge (r1\_xxreal\_0 (k2\_xcmplx\_0 \\ (k4\_xcmplx\_0 (k1\_radix\_1 X0)) np\_1) X1)) (\lambda X1 : \iota.X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_numbers) \Rightarrow (v1\_int\_1 X0) \quad (2)$$

## Theorem 1

$$\forall X0.\forall X1.(v7\_ordinal1 X1) \Rightarrow ((X0 \in k2\_radix\_1 X1) \Rightarrow (v1\_int\_1 X0))$$