

# t33\_classes2 (TMZWjBMkGZgvoPiNWBZWFG- MeZ2vbTu1Cpps)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $k1\_classes1 : \iota \Rightarrow \iota$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $v2\_classes1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.((v2\_classes1 X1) \wedge (X0 \in k2\_ordinal1 X1)) \Rightarrow (r1\_ordinal1 (k1\_card\_1 (k4\_classes1 X0)) (k1\_card\_1 X1))) \quad (1)$$

Assume the following.

$$\forall X0.v2\_classes1 (k1\_classes1 X0) \quad (2)$$

## Theorem 1

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(X0 \in k2\_ordinal1 (k1\_classes1 X1)) \Rightarrow (r1\_ordinal1 (k1\_card\_1 (k4\_classes1 X0)) (k1\_card\_1 (k1\_classes1 X1))))$$