Type isomorphism

Type isomorphism is similar to set bijection:

Proposition

If there is some $n \in \mathbb{N}$ such that A and B each have n elements, then A and B are isomorphic.

Proof.

Construct isomorphisms from A to $\operatorname{Fin} n$ and B to $\operatorname{Fin} n$. Since \cong is an equivalence relation, $A \cong \operatorname{Fin} n \cong B$.