Definition

- We say that A is **countably infinite** if $|A| = |\mathbb{N}|$.
  i.e., there is a bijection $f : A \to \mathbb{N}$.
- We say that A is **countable** if it is countably infinite, or finite.
- We denote the cardinality of $\mathbb{N}$ by the symbol $\aleph_0$ ("aleph zero").