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### 0.1 Finite and infinite sets

#### 0.1.1 Finite sets

A set is finite if there is a proper subset without a bijection.

Proper subset:  $A \subset B$

For example for set  $\{a, b, c\}$  There is no subset with a bijection.

#### 0.1.2 Infinite sets

For the natural numbers, all natural numbers except 0 is a proper subset, and there is a bijection.