Peano Axioms

Axiom 7
There exists a whole number 0.

Axiom 8
Every whole number \( n \) has a successor, \( \text{succ } n \).

Axiom 9
No whole number has 0 as its successor.

Axiom 10
If \( a, b \in \mathbb{W} \), then \( a = b \) iff \( \text{succ } a = \text{succ } b \).