

- Ok, so we know $P(1)$ is true.
- Now $P(1) \implies P(2)$, so $P(2)$ is true.
- $P(2) \implies P(3)$, so $P(3)$ is true.
- And with n steps, we can establish $P(n)$ is true.

This can get us anywhere ... but it kind of feels like we need “infinitely many” steps to get to all of \mathbb{N} . Is this ok?