Proofs are programs

$$P^{\Lambda}Q \Rightarrow P$$
 $P^{\Lambda}Q \Rightarrow Q$ 

Canstructive

Practical utility

- Manipulating data separate reasoning w/ proproitions?

- Write program and reason about it

- Google "natural number game"

- succ (a: mynat): mynat data - add\_zera (a: mynat): a + 0 = a praprsition L functions applied to matural numbers