



We know
`zero_ne_succ`
`n` is a proof
of `0 = succ`
`n → False` --
but what if
we have a
hypothesis
`succ n = 0`?
It's the wrong
way around!

The `symm`
tactic
changes a
goal `x = y`
to `y = x`,
and a goal `x`
`≠ y` to `y ≠`
`x`. And `symm`
`at h` does
the same for
a hypothesis
`h`. We've
proved `0 ≠`
`1` and called
the proof
`zero_ne_one`;
now try
proving `1 ≠`
`0`.

Level
completed!

Next

Goal:

`1 ≠ 0`

`intro h`

✖ Retry

Active Goal

Assumptions:

`h : 1 = 0`

Goal:

`False`

`symm at h`

✖ Retry

Active Goal

Assumptions:

`h : 0 = 1`

Goal:

`False`

`apply zero_ne_one at h`

✖ Retry

Active Goal

Assumptions:

`h : False`

Goal:

`False`

`exact h`

✖ Retry

level completed! 🎉



zero_ne_one

`: 0 ≠ 1`

`zero_ne_one` is a
proof of `0 ≠ 1`.