

Inference at *
of proof for Lemma iff_imp_equal_bool:

```
⊢∀a,b:ℕ. ((↑a) ⇔ (↑b)) ⇒ (a = b)
by ((UnivCD)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)
)) (first_tok :t) inil_term)))
```

1:

1. $a : \mathbb{N}$
 2. $b : \mathbb{N}$
 3. $(\uparrow a) \iff (\uparrow b)$
- ⊢ $a = b$