

Inference at *
of proof for Lemma eq_int_cases_test:

$\vdash \forall A:\text{Type}, x, y:A, P:(A \rightarrow \mathbb{P}), i, j:\mathbb{Z}.$
 $(P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})) \Rightarrow (P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi}))$
by ((UnivCD)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)
)) (first_tok :t) inil_term))).

1:

1. $A : \text{Type}$
 2. $x : A$
 3. $y : A$
 4. $P : A \rightarrow \mathbb{P}$
 5. $i : \mathbb{Z}$
 6. $j : \mathbb{Z}$
 7. $P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})$
- $\vdash P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})$