

Inference at * 1 0
of proof for Lemma eq_int_cases_test:

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1. A : Type
2. x : A
3. y : A
4. P : A → ℙ
5. i : ℤ
6. j : ℤ
7. P(if (i =0 j) then x else y fi )
⊢ P(if (i =0 j) then x else y fi )
  by (%S%
\p.
  let UA = get_term_arg 'UA' p
  inlet A = get_term_arg 'A' p

  in let e = get_term_arg 'e' p
  in let x = get_term_arg 'x' p
  in
  AssertL

      [mk_member_term UA A
      ;mk_member_term A e
      ;mk_all_term (dv x) A (
mk_member_term
      UA (mk_equal_term A e x))
      ]
  p)

1: .....assertion..... NILNIL

⊢ ℬ ∈ Type
2: .....assertion..... NILNIL

8. ℬ ∈ Type
⊢ (i =0 j) ∈ ℬ
3: .....assertion..... NILNIL

8. ℬ ∈ Type
9. (i =0 j) ∈ ℬ
⊢ ∀bb:ℬ. ((i =0 j) = bb) ∈ Type
4:

8. ℬ ∈ Type

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9. $(i =_0 j) \in \mathbb{B}$
 10. $\forall bb:\mathbb{B}. ((i =_0 j) = bb) \in \text{Type}$
- $\vdash P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})$
- .