

Inference at * 1 0 4 2
of proof for Lemma eq_int_cases_test:

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. $\exists bb : \mathbb{B}. ((i =_0 j) = bb)$
8. $P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})$
9. $\mathbb{B} \in \text{Type}$
10. $(i =_0 j) \in \mathbb{B}$
11. $\forall bb : \mathbb{B}. ((i =_0 j) = bb) \in \text{Type}$
- $\vdash P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})$
by ($\backslash p.D$ (get_int_arg 'i' p) p)

1:

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

.