

Inference at \* 1 0 4 1 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.  $P(\text{if } (i =_0 j) \text{ then } x \text{ else } y \text{ fi})$
  8.  $\mathbb{B} \in \text{Type}$
  9.  $(i =_0 j) \in \mathbb{B}$
  10.  $\forall bb : \mathbb{B}. ((i =_0 j) = bb) \in \text{Type}$
- $\vdash (i =_0 j) = (i =_0 j)$   
by (SoftNthHyp (-2))

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