

Inference at * 1 1 2
of proof for Lemma bool_sq:

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1. x : ?Unit
2. y : ?Unit
3. x = y
4. case x of inl(x) => x | inr(x) => x = case y of inl(x) => x | inr(x) => x
5. case x of inl(x) => True | inr(x) => False = case y of inl(x) => True | inr(x) => False
6. ¬(True = False)
⊢ x ~ y
  by (((((((((D 1)
    CollapseTHEN (D 2)).)
    CollapseTHEN (AbReduce 4)).)
      CollapseTHEN (AbReduce 5)).)
    CollapseTHEN (Try ((D 6)
      CollapseTHEN (Eq)).)).)
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t
      ) inil_term))).

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