Inference at $*$ 1 1
 of proof for Lemma bool_cases_sqequal:

$\vdash((\text{inl} \cdot) \sim (\text{inl} \cdot)) \vee ((\text{inl} \cdot) \sim (\text{inr} \cdot))$
  by ((Sel 1 (D 0))
  CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
    3:n)) (first_tok :t) inil_term)))·

    .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_85520_{bool_cases_sqequal}1_1.html