Inference at $*$ 1 2
 of proof for Lemma bool_cases:

$\vdash$(ff = tt) $\vee$ (ff = ff)
  by ((DNth 2 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_90824_{bool_cases}1_2.html