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

1. b : ?Unit
2. A : Type
3. p : A
4. q : A

$\vdash$case b of inl() => p | inr() => q $\in$ A
 by ((((D 1)
 CollapseTHEN (Reduce 0))·)
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·

 .