

Inference at *
of proof for Lemma branch_wf:

$\vdash \forall P:\mathbb{P}, d:\text{Dec}(P), T:\text{Type}, A:(P \rightarrow T), B:T. \text{if } p:P \text{ then } A(p) \text{ else } B \text{ fi} \in T$
by (Auto·)
CollapseTHEN ((Unfold 'branch' (0)·)
CollapseTHEN (Auto·)·

1:subterm..... T:t1:n

1. $P : \mathbb{P}$
 2. $d : \text{Dec}(P)$
 3. $T : \text{Type}$
 4. $P \rightarrow T$
 5. T
- $\vdash d \in (P + (\neg P))$
- .