Inference at $*$ 1 3
 of proof for Lemma decidable_or:

1. $P : \mathbb{P}$
2. $Q : \mathbb{P}$
3. $\neg P$
4. Q

$\vdash (P \vee Q) \vee (\neg(P \vee Q))$

 by ((((DNth 1 0)
 CollapseTHENM (DNth 2 0))·)
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

---

http://www.nuprl.org/FDLcontent/p0_942988_/p121_103432_{decidable__or}1_3.html