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

. . . . .basecase. . . . . NILNIL

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{\mathrm{k}\}$
2. $P(0)$
3. $\forall i{:}\mathbb{N}^{+}.\ P(i - 1) \Rightarrow P(i)$

$\vdash P(0)$
 by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_93428_{nat_ind}1_1.html