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

1. $P : \mathbb{N} \to \mathbb{P}\{\mathrm{k}\}$
2. $\forall i{:}\mathbb{N}.\ (\forall j{:}\mathbb{N}.\ (j < i) \Rightarrow P(j)) \Rightarrow P(i)$
3. $\mathbb{N}$
4. $s : \mathbb{N}$
5. $s < 0$

$\vdash P(s)$

by % S type empty % (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n )) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_93324_{comp_nat_ind_a}1_1_1.html