

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

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1.  $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$ 
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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