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

1. $P : \mathbb{N} \to \mathbb{P}$
2. $\forall j{:}\mathbb{N}.\ (\forall k{:}\mathbb{N}.\ (k < j) \Rightarrow P(k)) \Rightarrow P(j)$
$\vdash \forall n{:}\mathbb{N}.\ (\forall j{:}\mathbb{N}.\ (j < n) \Rightarrow P(j)) \Rightarrow P(n)$
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_92778_{nat_well_founded}1_1_1.html