Inference at $*$
of proof for Lemma fib_wf:

$\vdash \forall n{:}\mathbb{N}.\ \text{fib}(n) \in \mathbb{N}$
by ((((D 0)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·)
CollapseTHEN (((OnVar 'n' CompNatInd)

CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 1000:n
)) (first_tok :t) inil_term)))·))·

1:

1. $n : \mathbb{N}$
2. $\forall n_1{:}\mathbb{N}.\ (n_1 < n) \Rightarrow (\text{fib}(n_1) \in \mathbb{N})$
$\vdash \text{fib}(n) \in \mathbb{N}$

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