Inference at $*$ 2 1 1
of proof for Lemma fast-fib:

1. f :
   $\forall n$, a, b:$\mathbb{N}$.
   $\{m$:$\mathbb{N}$ |
    $\forall k$:$\mathbb{N}$.
    $(a = \text{fib}(k))$
    $\Rightarrow ((k \leq 0) \Rightarrow (b = 0))$
    $\Rightarrow ((0 < k) \Rightarrow (b = \text{fib}(k - 1)))$
    $\Rightarrow (m = \text{fib}(n+k))\}$

$\vdash (\lambda n.f(n,1,0)) \in (\forall n$:$\mathbb{N}$. $\{m$:$\mathbb{N} \mid m = \text{fib}(n)\}$)
 by (RepeatFor (first_nat 1:n) ((MemCD)
 CollapseTHENA (Auto$\cdot$)$\cdot$))$\cdot$

   1: . . . . .subterm. T:t1:n

      2. $n : \mathbb{N}$
      $\vdash f(n,1,0) \in \{m$:$\mathbb{N} \mid m = \text{fib}(n)\}$
   .