

Inference at * 1
of proof for Lemma add_functionality_wrt_lt:

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1.  $i_1 : \mathbb{Z}$ 
2.  $i_2 : \mathbb{Z}$ 
3.  $j_1 : \mathbb{Z}$ 
4.  $j_2 : \mathbb{Z}$ 
5.  $i_1 < j_1$ 
6.  $i_2 \leq j_2$ 
 $\vdash (i_1 + i_2) < (j_1 + j_2)$ 
  by ((BackThruLemma 'lt_to_le'
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat
1:n),(first_nat 3:n)) (first_tok :t) inil_term))))

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1:

$\vdash (i_1 + i_2 + 1) \leq (j_1 + j_2)$

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