Inference at $*$ 2 1
of proof for Lemma primrec_add:

1. T : Type
2. n : $\mathbb{Z}$
3. $0 < n$
4. $\forall m$:$\mathbb{N}$, b:T, c:$(\{0..((n - 1)+m)^-\}\rightarrow T\rightarrow T)$.
   primrec($(n - 1)+m$;b;c) = primrec(n - 1;primrec(m;b;c);$\lambda i,t.\ c(i+m,t)$)
5. m : $\mathbb{N}$
6. b : T
7. c : $\{0..(n+m)^-\}\rightarrow T\rightarrow T$
8. primrec($(n - 1)+m$;b;c) = primrec(n - 1;primrec(m;b;c);$\lambda i,t.\ c(i+m,t)$)

$\vdash$ primrec($n+m$;b;c) = primrec(n;primrec(m;b;c);$\lambda i,t.\ c(i+m,t)$)
by ((((((MoveToConcl (-1))
CollapseTHEN (GenConcl primrec(m;b;c) = b'))$\cdot$)

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok SupInf:t) inil_term)))$\cdot$)
CollapseTHEN (Try ((ExtWith [‘z’] [$\{0..(n+m)^-\}\rightarrow T\rightarrow T$])

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok SupInf:t) inil_term)))$\cdot$))$\cdot$

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8. b' : T
9. primrec(m;b;c) = b'
10. primrec($(n - 1)+m$;b;c) = primrec(n - 1;b';$\lambda i,t.\ c(i+m,t)$)

$\vdash$ primrec($n+m$;b;c) = primrec(n;b';$\lambda i,t.\ c(i+m,t)$)
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