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

1. T : Type
2. n : $\mathbb{Z}$
3. $0 < n$
4. $\forall m{:}\mathbb{N}$, $b{:}T$, $c{:}(\{0..((n - 1)+m)^-\}\to T\to T)$.
   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 : $\{0..(n+m)^-\}\to T\to T$
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';$\lambda i,t.\ c(i+m,t)$)
 by ((((RecUnfold ‘primrec‘ 0)
 CollapseTHEN (Reduce 0))·)
 CollapseTHEN (Repeat ((((
  SplitOnConclITE)
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
  1000:n)) (first_tok :t) inil_term)))·)
 CollapseTHEN (Try (Complete
  (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok SupInf:t
) inil_term)))))·))·

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    11. $\neg(n+m = 0)$
    12. $\neg(n = 0)$
    $\vdash$ $c(((n+m) - 1)$,primrec($(n+m) - 1$;b;c))
      =
      $c((n - 1)+m$,primrec(n - 1;b';$\lambda i,t.\ c(i+m,t)$))
  .