Inference at $*$
of proof for Lemma nth_tl_is_fseg:

$\vdash \forall T$:Type, L_1, L_2:(T List). fseg(T;L_1;L_2) $\iff$ ($\exists n$:{0..($\|L_2\|$+1)$^-$}. (L_1 = nth_tl(n;L_2)))
by ((((Unfold ‘fseg‘ 0)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term)))·)
CollapseTHEN (ExRepD))·

1:

1. T : Type
2. L_1 : T List
3. L_2 : T List
4. L : T List
5. L_2 = (L @ L_1)

$\vdash \exists n$:{0..($\|L_2\|$+1)$^-$}. (L_1 = nth_tl(n;L_2))

2:

1. T : Type
2. L_1 : T List
3. L_2 : T List
4. n : {0..($\|L_2\|$+1)$^-$}
5. L_1 = nth_tl(n;L_2)

$\vdash \exists L$:T List. (L_2 = (L @ L_1))

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