Inference at $*$ 2 2 1 2 1 1
of proof for Lemma before-adjacent:

1. T : Type
2. T List
3. u : T
4. v : T List
5. $\forall x$, y:T.
   no_repeats(T;v)
   $\Rightarrow$ adjacent(T;v;x;y)
   $\Rightarrow$ ($\forall z$:T. z before $y \in v \Rightarrow (z$ before $x \in v \vee (z = x)))$
6. x : T
7. y : T
8. no_repeats(T;v)
9. $\neg(u \in v)$
10. $0 < \|v\|$
11. adjacent(T;v;x;y)
12. z : T
13. z before $y \in v$
14. $\forall z$:T. z before $y \in v \Rightarrow (z$ before $x \in v \vee (z = x))$
15. z before $x \in v$

$\vdash$ z before $x \in [u$ / $v]$
by ((((RWO "cons_before" (0))
THENM (OrRight))$\cdot$)
CollapseTHEN (Auto$\cdot$))$\cdot$

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_1029031_{before-adjacent}2_2_1_2_1_1.html