Inference at $*$
of proof for Lemma lt_transitivity_2:

$\vdash \forall i, j, k{:}\mathbb{Z}.\ (i \leq j) \Rightarrow (j < k) \Rightarrow (i < k)$
by (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_77695_{lt_transitivity_2}.html