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

. . . . .subterm. T:t2:n

$\vdash$ $(\lambda i,j.\ i < j) \in \mathbb{N} \to \mathbb{N} \to$Type
  by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)

  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_83564_{fincr_wf}1_2.html