Inference at $*$
of proof for Lemma mul_cancel_in_lt:

$\vdash \forall a, b{:}\mathbb{Z}, n{:}\mathbb{N}^+.\ ((n * a) < (n * b)) \Rightarrow (a < b)$
by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)

1:

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{N}^+$
4. $(n * a) < (n * b)$

$\vdash a < b$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_75047_{mul_cancel_in_lt}.html