Inference at $*$ 1 2
 of proof for Lemma mul_bounds_1a:

1. $a : \mathbb{N}$
2. $b : \mathbb{N}$
3. $(a * 0) \leq (a * b)$

$\vdash 0 \leq (a * b)$

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_74472_{mul_bounds_1a}1_2.html