Inference at $*$ 1 1
of proof for Lemma mul_preserves_le:

.....basecase..... NILNIL

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $a \leq b$

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

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_75390_{mul_preserves_le}1_1.html