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

1. $i : \mathbb{N}$
2. $j : \mathbb{N}$
$\vdash (i * j) \in \mathbb{Z}$
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_73877_{multiply_nat_wf}1.html