Inference at $*$
of proof for Lemma int_upper_properties:

$\vdash \forall i{:}\mathbb{Z},\ j{:}\{i\ldots\}.\ i \le j$
by ProvePropertiesLemma

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_95238_{int_upper_properties}.html