Inference at $*$
of proof for Lemma int_seg_properties:

$\vdash \forall i,\ j{:}\mathbb{Z},\ y{:}\{i..j^-\}.\ i \le y < j$
by ProvePropertiesLemma

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_95004_{int_seg_properties}.html