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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
$\vdash$ $(i <\text{z } j \sim \text{ff}) \Rightarrow (\neg(i < j))$
by D 0

1:

3. $i <\text{z } j \sim \text{ff}$
$\vdash$ $\neg(i < j)$

2: . . . . .wf. . . . . NILNIL

$\vdash$ $(i <\text{z } j \sim \text{ff}) \in \text{Type}$

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