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

1. $i_2 : \mathbb{Z}$
2. $j_2 : \mathbb{Z}$
3. $i_2 \leq j_2$
4. $i_1 : \mathbb{Z}$
5. $i_1 < 0$
6. $\forall j_1{:}\mathbb{Z}.\ ((i_1{+}1) \leq j_1) \Rightarrow ((i_1{+}1{+}i_2) \leq (j_1{+}j_2))$
7. $j_1 : \mathbb{Z}$
8. $i_1 \leq j_1$

$\vdash (i_1{+}i_2) \leq (j_1{+}j_2)$
by (RA ((DTerm j_1+1 6)
CollapseTHENM (D (-1)))·)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_77281_{add_functionality_wrt_le}1_1_1.html