

strict-sorted^{11,40}

$\forall T:\text{Type}.$
 $\text{subtype_rel}(T; \mathbb{Z})$
 $\Rightarrow (\forall as:(T \text{ List}).$
 $(\text{sorted}(as) \wedge \text{no_repeats}(T; as))$
 $\iff (\forall i:\text{int_seg}(0; \|as\|), j:\text{int_seg}(0; i). as[j] < as[i]))$