

compose_increasing^{11,40}

$\forall k, m: \mathbb{N}, f: (\text{int_seg}(0; k) \rightarrow \text{int_seg}(0; m)), g: (\text{int_seg}(0; m) \rightarrow \mathbb{Z}).$
 $\text{increasing}(f; k) \Rightarrow \text{increasing}(g; m) \Rightarrow \text{increasing}(\text{compose}(g; f); k)$