

no_repeats-before-equality^{0,22}

$\forall T:\text{Type}, as, bs:T \text{ List.}$

$\text{no_repeats}(T;as)$

$\Rightarrow \text{no_repeats}(T;bs)$

$\Rightarrow (as = bs$

\Leftrightarrow

$(\forall x:T. (x \in as) \Leftrightarrow (x \in bs)) \ \& \ (\forall x, y:T. x \text{ before } y \in as \Leftrightarrow x \text{ before } y \in bs))$