

agree_on_common_append^{4,23}

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

$(\forall x \in cs. \neg(x \in bs))$

$\Rightarrow (\forall x \in as. \neg(x \in ds))$

$\Rightarrow \text{agree_on_common}(T; as; cs)$

$\Rightarrow \text{agree_on_common}(T; bs; ds)$

$\Rightarrow \text{agree_on_common}(T; as @ bs; cs @ ds)$