

## general-append-cancellation<sup>0,22</sup>

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

$(as @ cs) = (bs @ ds) \in T \text{ List}$

$\Rightarrow \|as\| = \|bs\| \in \mathbb{Z} \vee \|cs\| = \|ds\| \in \mathbb{Z}$

$\Rightarrow \{as = bs \ \& \ cs = ds\}$