

## **l\_before\_swap**<sup>4,23</sup>

$\forall T:\text{Type}, L:T \text{ List}, i:\mathbb{N}_{<\|L\|-1}, a, b:T.$

$a \text{ before } b \in \text{swap}(L;i;i+1) \Rightarrow a \text{ before } b \in L \vee a = L[i+1] \ \& \ b = L[i]$