

## **l\_member!**<sup>11,40</sup>

$$\begin{aligned} & \text{l\_member!}(x; l; T) \\ \equiv_{\text{def}} & \exists i:\mathbb{N}. ((i < \|l\|) \text{c} \wedge ((x = l[i]) \wedge (\forall j:\mathbb{N}. (j < \|l\|) \Rightarrow (x = l[j]) \Rightarrow (j = i)))) \end{aligned}$$

*clarification:*

$$\begin{aligned} & \text{l\_member!}(x; l; T) \\ \equiv_{\text{def}} & \exists i:\mathbb{N} \\ & ((i < \|l\|) \\ & \text{c} \wedge ((x = l[i] \in T) \wedge (\forall j:\mathbb{N}. (j < \|l\|) \Rightarrow (x = l[j] \in T) \Rightarrow (j = i \in \mathbb{N})))) \end{aligned}$$