$[Val]$ (the set of storable values)
$Ptr : \mathbb{P}\, Val$ (the set of pointers is a subset of Val)
$nil : Ptr$

ADT $Store \mathrel{\widehat=} Ptr \setminus \{nil\} \pfun Val$

initially $(s : Store) \mathrel{\widehat=} s = \varnothing$

procedure $add(\mathbf{ref}\ s : Store, \mathbf{value}\ v : Val, \mathbf{ref}\ p : Ptr)$
$\mathrel{\widehat=} s, p : \left[\text{true} , \begin{array}{c} p \notin \operatorname{dom} s_0 \\ s = s_0 \cup \{p \mapsto v\} \end{array} \right]$

procedure $update(\mathbf{ref}\ s : Store, \mathbf{value}\ p : Ptr, \mathbf{value}\ v : VAL)$
$\mathrel{\widehat=} s : \left[p \in \operatorname{dom} s , s = s_0 \oplus \{p \mapsto v\} \right]$

procedure $deref(\mathbf{value}\ s : Store, \mathbf{value}\ p : Ptr, \mathbf{ref}\ v : Val)$
$\mathrel{\widehat=} v : \left[p \in \operatorname{dom} s , v = s(p) \right]$

procedure $transfer(\mathbf{ref}\ s, t : Store, \mathbf{value}\ ptrs : \mathbb{F}\, Ptr)$
$\mathrel{\widehat=} s, t : \left[\begin{array}{c} s = ptrs \mathrel{\lhd} s_0 \\ ptrs \subseteq \operatorname{dom} s , t = t_0 \cup (ptrs \mathrel{\lhd} s_0) \\ ptrs \cap \operatorname{dom} t_0 = \varnothing \end{array} \right]$