

# ARRAYED\_CONTAINER+

**feature** -- Queries

count+: **INTEGER**

-- *Number of items stored in the container*

**feature** -- Commands

assign\_at+ (i: **INTEGER**; s: **STRING**)

-- *Change the value at position 'i' to 's'.*

**require**

*valid\_index*:  $1 \leq i \leq \text{count}$

**ensure**

*size\_unchanged*:  $\text{imp.count} = (\text{old imp.twin}).\text{count}$

*item\_assigned*:  $\text{imp}[i] \sim s$

*others\_unchanged*:  $\forall j : 1 \leq j \leq \text{imp.count} : j \neq i \Rightarrow \text{imp}[j] \sim (\text{old imp.twin})[j]$

**feature** -- { **NONE** }

imp+: **ARRAY[STRING]**

-- *Implementation of an arrayed-container*

**invariant**

*consistency*:  $\text{imp.count} = \text{count}$