BOUNDEDBUFFER SHARED RESOURCE

```
\mathbf{CADT} \ \mathrm{Boundedbuffer}
OPERATIONS
  ACTION Put: \mathbb{N}[i]
  ACTION Get: \mathbb{N}[o]
SEMANTICS
  DOMAIN:
    TYPE: Boundedbuffer = Sequence(ANY)
                                                                                                  IN-
VARIANT: \forall mb \in Boundedbuffer \bullet Length(mb) \leq MAX
                                                                                                   INI-
TIAL: Length(self) = 0
  \mathbf{PRE}: true
  CPRE: Length(self) \leq MAX - 1
      Put(r)
  POST: self = self^{in} + r
  PRE: true
  CPRE: 1 \leq \text{Length}(self)
      Get(s)
  POST: self^{in} = self + s
```