MULTIBUFFER SHARED RESOURCE

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CADT Multibuffer
OPERATIONS
  ACTION Put: Sequence(ANY)[i]
  ACTION Get: \mathbb{N}/i/\times Sequence(ANY)/o/
SEMANTICS
  DOMAIN:
    TYPE: Multibuffer = Sequence(ANY)
    INVARIANT: \forall mb \in Multibuffer \bullet Length(mb) \leq MAX
    INITIAL: Length(self) = 0
  PRE: Length(r) \leq \lfloor MAX/2 \rfloor
   CPRE: Length(r) \leq MAX - \text{Length}(self)
       Put(r)
  POST: self^{\text{out}} = self^{\text{in}} + r
  PRE: n \leq \lfloor MAX/2 \rfloor
   CPRE: Length(self) \geq n
       Get(n, s)
  POST: self^{in} = self^{out} + s
```