MULTIBUFFER SHARED RESOURCE

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