

```

-----MODULE BoundedChannel-----
EXTENDS Integers, Sequences

□
CONSTANT Msg, N

□
ASSUME N \in Nat \ {0}

□
(*****
--algorithm BChan{
  variable ch = <<>;
  process (Send = "S")
    {s: while (TRUE)
      {await Len(ch) # N;
        with (v \in Msg) {ch := Append(ch, v)}
      }
    }
  process (Rcv = "R")
    {r: while (TRUE)
      {await Len(ch) # 0;
        ch := Tail(ch)
      }
    }
}
  *****)
=====

```