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EXTENDS Integers, Sequences
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ISeq(S) \stackrel{\triangle}{=} [(Nat \setminus \{0\}) \rightarrow S]
ITail(iseq) \stackrel{\triangle}{=} [i \in (Nat \setminus \{0\}) \mapsto iseq[i+1]]
IHead(iseq) \stackrel{\Delta}{=} iseq[1]
Constant N, Msq, Input
Assume \land N \in Nat \setminus \{0\}
          \land Input \in ISeq(Msq)
(***************
--algorithm BChan{
   variables in = Input, out = \langle \rangle, ch = \langle \rangle;
   process ( Send = 0 ) {
      s: while (TRUE) {
           await Len(ch) \neq N:
            ch := Append(ch, IHead(in));
           in := ITail(in) \} 
   process ( Rcv = 1 ) {
      r: while ( TRUE ) {
           await Len(ch) \neq 0;
            out := Append(out, Head(ch));
            ch := Tail(ch) \} \}
```