```
-----MODULE BoundedChannel -----
EXTENDS Integers ... Sequences
ш
ISeq(S) == [(Nat_{\cdot \cdot} \setminus \{0\}), -> S]
ITail(iseq)_{\sqcup} ==_{\sqcup} [i_{\sqcup} \setminus in_{\sqcup} (Nat_{\sqcup} \setminus_{\sqcup} \{0\})_{\sqcup} | ->_{\sqcup} iseq[i+1]]
Ш
IHead(iseq)_==_iseq[1]
1.1
CONSTANT N. Msg. Input
ASSUME // N. \in Nat. \. {0}
ULULULU /\LInput_\in_ISeq(Msg)
ш
(*********************************
--algorithm BChan {
UUUUUUUUUUUawaituLen(ch),,#,,N,,;
uuuuuuuuuchu:=uAppend(ch,uIHead(in))u:
UUUUUUUUUUInu:=UITail,,(in),,},,}
UUUUUUr: while (TRUE) {
UUUUUUUUUUawaituLen(ch),,#,,0,,;
____out_:=_Append(out,_Head(ch)),;
......ch.:=.Tail..(ch)..}..}..
```