

```

┌────────────────── MODULE BoundedFIFO ───────────────────┐
EXTENDS Naturals, Sequences, TLC
VARIABLES in, out
CONSTANTS Message, N

ASSUME  $(N \in Nat) \wedge (N > 0)$ 

 $Inner(q) \triangleq$  INSTANCE InnerFIFO

 $BNext(q) \triangleq$   $\wedge Inner(q)!Next$ 
                   $\wedge Inner(q)!BufRcv \Rightarrow (Len(q) < N)$ 

 $Spec \triangleq$   $\exists q : Inner(q)!Init \wedge \Box[BNext(q)]_{\langle in, out, q \rangle}$ 
└──────────────────┘

\ * Modification History
\ * Last modified Sat May 18 13:39:35 PDT 2019 by jasondebolt
\ * Created Sat May 18 13:08:19 PDT 2019 by jasondebolt

```