

```

--algorithm NProcBBuf{
  variables  $in = Input$ ,  $out = \langle \rangle$ ,
            $buf \in [0 \dots (N - 1) \rightarrow Msg]$ ,  $p = 0$ ,  $c = 0$ ;

  fair process (  $Buffer \in 0 \dots (N - 1)$  )
  { b1:- while ( TRUE )
    { await  $p \% N = self$  ;
       $buf[self \% N] := IHead(in)$  ;
       $in := ITail(in)$  ;
       $p := p \oplus 1$  ;

      b2:  await  $c \% N = self$  ;
            $out := Append(out, buf[self \% N])$  ;
            $c := c \oplus 1$ 
    }
  }
}

```