```
--algorithm NProcBBuf {
variables in = Input, out = \langle \rangle,
            buf \in [0...(N-1) \to Msq], p = 0, c = 0;
fair process ( Buffer \in 0...(N-1) )
 \{ b1: \mathbf{while} \ (\mathbf{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
```