```
--algorithm FGBBuf {
  variables buf ∈ [0 .. (N − 1) → Msg], p = 0, c = 0;
  process (Producer = "P")
    { p1: while (TRUE)
            {     await p ⊖ c ≠ N ;
              p2: with (v ∈ Msg) {buf[p % N] := v};
              p3: p := p ⊕ 1
            }
    }
  fair process (Consumer = "C")
    { c1: while (TRUE)
            {     await p ≠ c;
              c3: c := c ⊕ 1
            }
    }
}
```

CLOSE