```
---_MODULE_FGBoundedBuffer_-
EXTENDS_Integers,_Sequences,_ISequences
CONSTANT, N, Msg, Input
ASSUME, /\, N, \in, Nat, \, {0}
a_{\sqcup}(+)_{\sqcup}b_{\sqcup}==_{\sqcup}(a_{\sqcup}+_{\sqcup}b)_{\sqcup}\%_{\sqcup}2*N
a_{11}(-)_{11}b_{11}==_{11}(a_{11}-_{11}b)_{11}\%_{11}2*N
--algorithm_FGBBuf_{ { } }
\sqcup \sqcup \sqcup variables \sqcup in \sqcup = \sqcup Input, \sqcup out \sqcup = \sqcup << \sqcup >>,
local loca
ш
DELICIPROCESS: (Producer: =: "P")
UUUUU{Up1: Uwhile (TRUE)
UUUUUUUUUUU{
uawaitupu(-)ucu#,N,;
____buf[p_%_N]_:=_IHead(in);
uuuuuuuuuuinu:=uITailu(in),;
___p3:__p_:=_pp_(+)_1
(ا النالال
1.1
| fair | process | (Consumer | = | "C")
| | | | | | | | (TRUE)
____c3:___c:=_c, (+), 1
____}
11111
```