Monitor teórico para buffer productor-consumidor.

José Miguel Aragón Jurado

December 2018

```
1       Monitor Buffer
2       var
3       Integer: in,out,cont,slots;
4       Condition:insertar,extraer
5       Array of Matrix[1..slots]:buffer;
6
7
8       procedure insertar(integer valor)
9       begin
10              while(cont=slots)
11                      wait(insertar);
12              buffer[in]:=valor;
13              cont++;
14              in=(in+1)%slots
15              send(extraer);
16      end
17
18      procedure integer extraer()
19      begin
20              while(cont=0)
21                      wait(extraer)
22              cont—
23              out=(out+1)%slots
24              send(insertar);
25              return buffer[out];
26      end
27
28
29      begin
30              in=0;
31              out=0;
32              cont=0;
33              slots=100
34      end
```