

```
monitor pairbuf{
    queue<T> buf = []; // buffer FIFO
    queue<T> waiting_p ; // waiting put
    queue<T> waiting_g ; // waiting get
    condition ok2put, ok2get;

    procedure entry void put(T x) {
        if (waiting_g > waiting_p) {
            waiting_p;
            ok2put.wait();
            waiting_p--;
        }
    }
    procedure entry T get(void) {
    }
}
```