

```
monitor FIFOsemaphore {
    int s = 0; ## s >= 0
    cond pos; # signaled when s > 0

    procedure Psem() {
        if (s == 0)
            wait(pos);
        else
            s = s-1;
    }

    procedure Vsem() {
        if (empty(pos))
            s = s+1;
        else
            signal(pos);
    }
}
```

**Figure 5.3** FIFO semaphore using passing the condition.

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