```
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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