

Reader Entry

```
P(mutex);  
if (wvc > 0) or (wc > 0) {  
    rwc++;  
    V(mutex);  
    P(rsem);  
    P(mutex);  
    rwc--; };
```

R

if true block reader

block

Block 1

WC
rc
wvc
rwc

mutex = 1
Vsem = 0
Wsem = 0

```
rc++;  
V(mutex);
```

read

Reader Exit

```
P(mutex);  
rc--;  
if (rc = 0) && (wvc > 0) V(wsem);  
V(mutex);
```

Writer Entry

P(mutex);

if ~~(rc>0) || (wc>0) || (rwc>0) || (wwc>0) {~~

wwc++;

V(mutex);

P(wsem);

P(mutex);

wwc--; }

wc++;

V(mutex);

WRITE ← W₁

Writer Exit

P(mutex);

wc-- ;

if (rwc>0) then

for (i=1; i<=rwc; i++)V(rsem)

else if (wwc>0) V(wsem);

V(mutex)

