void writer

{

while(true)

{

P(w);

write();

V(w);

}

}

void reader()

{

while(true)

{

P(mutex)

count++;

if(count==1)

P(w)

V(mutex)

read()

P(mutex)

count--;

if(count==0)

V(w)

V(mutex)

}

}

void reader()

{

while(true)

{

P(x)

P(read)

P(mutex)

if(count ==0)

P(w)

count++;

V(mutex)

V(read)

V(x)

read();

P(mutex)

count--;

if(count==0)

V(w)

V(mutex)

}

}

void writer()

{

while(true)

{

P(mutex)

if(0 == i)

P(read)

i++;

V(mutex)

P(w)

write();

V(wt

P(mutex)

i--;

if(i==0)

V(read)

V(mutex)

}

}