```
Monitor readerwriter
{
    int readcount, write count;
    condition rmutex, wmutex;
    public:
        void startread( ){
            if(writecount==1)
                cwait(rmutex);
            readcount++;
            csignal(rmutex);
        }
        void endread(){
            readcount--;
            if(readcount==0)
                csignal(wmutex);
        }
        void startwrite( ){
            if(readcount>0||writecount==1)
               cwait(wmutex);
            writecount=1;
        }
        void endwrite(){
            writecount=0;
            if(rmutex!=NULL)
                 csignal(rmutex);
            else
                csignal(wmutex);
        }
        {readcount=0; writecount=0;}
}RW;
void Readers(){
    while(true){
        RW.startread();
        reading
        RW.endread();
}
void Writers( ){
    while(true){
```

```
RW.startwrite();
writing
RW.endwrite();
}

void main(){
cobegin
Readers();
Writers();
coend
}
```