semaphore m=1,w=1;

int count=0;

int data=0;

void writer()

{

while(1)

{

wait(w);

data++;

cout<<"i am writing"<<endl<<endl;

signal(w);

if(data==20)

break;

}

}

void reader(int id)

{

while(1){

wait (m) ;

count ++ ;

if (count == 1)

{

wait (w) ;

cout<<"id:"<<id<<" called wait(w) "<<endl;

}

signal (m);

wait(m);

cout<<"id:"<<id<<"gna start reading: "<<data<<endl;

signal(m);

wait (m);

count--;

if (count == 0)

{

cout<<"id:"<<id<<"called signal(w)"<<endl;

signal (w);

}

signal (m) ;

if(data==20)

break;

}

}

main()

{

cobegin{writer();reader(1);reader(2);reader(3);}

}