package P2;

public class HI {

int A1,A2,A3;

int B1,B2,B3;

boolean goA1,goA2,goA3 = false;

boolean goB1,goB2,goB3 = false;

class Thread1 implements Runnable{

private Data d;

public Thread1( Data d){

this.d=d;

}

}

@Override

public void run() {

synchronized(d){

d.A1=100\*(100+1)/2;

d.goB1=true;

d.notify();

}

}

synchronized(d){

while(!d.goA2)

try {

d.wait();

}

catch(InterruptedException e) {

}

d.A2= d.B2+(400\*(400+1)/2);

d.goB3=true;

d.notify();

}

synchronized(d){

while(!d.goA3)

try {

d.wait();

}

catch(InterruptedException e) {

}

d.A3= d.B3+(600\*(600+1)/2);

}

}

}

class Thread2 implements Runnable{

private Data d;

public Thread1( Data d){

this.d=d;

}

}

@Override

public void run() {

synchronized(d){

while(!d.goB1)

try {

d.wait();

}

catch(InterruptedException e) {

}

d.B1=A1+(200\*(200+1)/2);

d.goB2=true;

d.notify();

}

}

synchronized(d){

while(!d.goB2)

try {

d.wait();

}

catch(InterruptedException e) {

}

d.B2= 300\*(300+1)/2;

d.goA2=true;

d.notify();

}

synchronized(d){

while(!d.goB3)

try {

d.wait();

}

catch(InterruptedException e) {

}

d,B3=A2+(500\*(500+1)/2);

d.goA3=true;

d.notify();

}

}

}

public class Pb3ForceSync0 {

public static void main(String[] args) {

Data d= null;

int i=0;

int num\_iter=1000;

while(i++<num\_iter)

{

d=new Data();

Thread2 t1= new Thread2(d);

Thread t2=new Thread(new Thread1(d));

t1.start();

t2.start();

try{

t1.join();

t2.join();

}

catch (InterruptedException e) {}

}

if(d.counter!=0) System.out.println(">>>ERRRRRRRRRRRRRRRRRRRRRROR at iteration:" + i+ " counter:"+ d.counter);

System.out.println(" The final value of counter is "+d.counter);

}

}