

**Lösung Aufgabe 2 von Übungsblatt 7 (WS 2006/07)**

```
public class Shop extends Applet{
    Turnstile A;
    Turnstile B;
    Counter counter;

    public void start(){
        counter = new Counter();
        A = new Turnstile(counter);
        B = new Turnstile(counter); // A und B teilen sich denselben Zaehler
        A.start();
        B.start();
    }
    public void stop(){
        A.interrupt();
        B.interrupt();
    }
}

class Turnstile extends Thread{
    Counter people;
    public Turnstile(Counter c){
        people = c;
    }
    public void run(){
        try{
            while (true){
                Thread.sleep(500); // arrive
                people.inc();
            }
        } catch (InterruptedException e) {}
    }
}

class Counter {
    private int var=0;
    synchronized void inc(){
        int temp = var; // read
        var = temp+1; // write
    }
}
```

}  
}