```
package com. sxt. syn;
import java.util.ArrayList;
import java.util.List;
/**
* 快乐影院
* @author 江
*/
public class HappyCinema9 {
   public static void main(String[] args) {
         //可用位置
         List<Integer> available=new ArrayList<>();
         available.add(1);
         available.add(2);
         available.add(3);
         available. add(6);
         available.add(7);
         List<Integer> seats1=new ArrayList<>();
         seats1. add(1);
         seats1. add(2);
         List<Integer> seats2=new ArrayList<>();
         seats2. add(1);
         seats2. add(2);
         seats2. add(6);
         SxtCinema c=new SxtCinema(available, "happy sxt");
         new Thread(new HappyCustomer(c, seats1), "老高").start();
         new Thread(new HappyCustomer(c, seats2), "老裴").start();
```

```
//顾客
class HappyCustomer implements Runnable{
    SxtCinema cinema;
   List < Integer > seats;
       public HappyCustomer(SxtCinema cinema, List<Integer> seats) {
               this.cinema = cinema;
               this. seats = seats;
       }
       @Override
       public void run() {
               synchronized(cinema) {
       boolean flag=cinema.bookTickets(seats);
       if(flag) {
               System.err.println("出票成
功"+Thread.currentThread().getName()+"-<位置为"+seats);
       }else {
               System.err.println("出票失
败"+Thread.currentThread().getName()+"-<位置不够");
       }
               }
}
//影院
class SxtCinema{
        List<Integer> available;//可用的位置
        String name;
```

```
public SxtCinema(List<Integer> available, String name) {
       this.available=available;
       this.name=name;
       }
        //购票
        public boolean bookTickets(List<Integer> seats) {
                System.err.println("欢迎光临"+this.name+",当前可用位置
为:"+available);
                List<Integer> copy=new ArrayList<Integer>();
                copy. addAll(available);
                //相减
                copy.removeAll(seats);
               //判断大小
                if(available.size()-copy.size()!=seats.size()) {
                        return false;
                }
                //成功
                available=copy;
                return true;
        }
```