## **Barbershop**

Pseudo-code:

```
Barbershop:
mutex m;
condition customer_waiting, haircut, barber_seat_occupied;
int remaining_seats = 4;
barber: {
     while(true){
         // No waiting customer.
         while (remaining_seats >= 4){
             cutomer_waiting.wait();
         }
         // Barber is ready to give haircut.
         haircut.signal();
         // Barber is doing haircut.
         barber_seat_occupied.wait();
    }
}
customer: {
     // Fullshop.
     if (remaining_seats == 0)
         return;
     // Sitting in chair and wait.
     remaining_seats --;
     customer_waiting.signal();
     haircut.wait();
     // Moved to barber's chair.
     remaining_seats ++;
     // Do haircut for 1.2s.
     do(1200);
     // Haircut is done.
     barber_seat_occupied.signal();
}
```