

### **DATA**

```
Map<String, Double> prices
List<Check> myBills
```

### **MESSAGES**

```
ComputeBill(String choice, int tnum, String name, Waiter w) {
    myBills.add(new Check(choice, tnum, name, w);
}
```

```
HerelsAPayment(Customer cust, int tnum, double valCustPaid) {
    if there exists a Check ch in myBills such that myBills.tablenum=tnum
        then ch.CustomerPaid=valCustPaid;
        ch.customer = cust;
        ch.state= paid;
}
```

### **SCHEDULER**

```
if there exists a Check ch in myBills such that ch.state=processing
    then ProcessBill(ch);
if there exists a Check ch in myBills such that ch.state=paid
    then ComputeChange(ch);
```

### **ACTIONS**

```
ProcessBill(Check ch) {
    ch.BillAmnt=prices.get(ch.choice);
    ch.state=processed;
    bi.waiter.HerelsACheck(ch.tablenum, ch.BillAmnt);
}

ComputeChange(Check ch) {
    double changeval = ch.CustomerPaid - ch.BillAmnt;
    if(changeval>=0)
        ch.customer.HerelsYourReceiptAndChange(changeval);
    else
        ch.customer.HerelsYourReceiptAndChange(0);
    myBills.remove(ch);
}
```