HOST AGENT

Data

```
static final int NTABLES;
public List<CustomerAgent> waitingCustomers
= new ArrayList<CustomerAgent>();
public List<WaiterAgent> allWaiters
= new ArrayList<WaiterAgent>();
public Collection<Table> tables;
public enum AgentState
{DoingNothing, SeatingCustomer};
private AgentState state;
private String name;
public HostGui hostGuil;
private int LeastBusyWaiter;
private class Table {
       CustomerAgent occupiedBy;
       int tableNumber;
}
```

Messages

```
public void msgImFree(WaiterAgent w) {
        stateChanged();
}

public void msgIWantFood(CustomerAgent cust) {
        waitingCustomers.add(cust);
        stateChanged();
}
```

```
public void msgLeavingTable(CustomerAgent cust) {
    for (Table table : tables) {
        if (table.getOccupant() == cust) {
            print(cust + " leaving " + table);
            table.setUnoccupied();
            stateChanged();
        }
    }
}
```

Scheduler

Actions

```
private void seatCustomer(WaiterAgent waiter, CustomerAgent customer, Table table) {
          waiter.msgNewCustomerToSeat(customer, table.getTable());
          print(waiter.getName() + " seating " + customer + " at " + table);
          table.setOccupant(customer);
          waitingCustomers.remove(customer);
}
```