<u>Data</u>

Scheduler

```
If there exists w in waiters
Such that (!w.onBreak)
If (w.breakApproved)
w.waiter.msgBreakApproved
w.onBreak = true;
else if (w.breakDenied) {
w.waiter.msgBreakDenied();
```

```
<u>Messages</u>
```

```
msgIWantFood (CustomerAgent cust) {
      waitingCustomers.add(cust);
}
msgTableIsFree(table) {
      if there exists t in tables such that table = t then t.setUnoccupied();
}
public void msgIWantABreak(WaiterAgent w)
      if (waiters.size() > 1) {
             for (MyWaiter mw : waiters) {
                    if (mw.waiter.equals(w)){
                           mw.breakApproved = true;
                    }
             }
      }
      else {
             mw.breakDenied = true;
      }
}
public void msgImOffBreak(WaiterAgent w) {
      for (MyWaiter mw : waiters) {
             if (mw.waiter.equals(w)){
                    mw.breakApproved = false;
                    mw.breakDenied = false;
                    mw.onBreak = false;
             }
      }
}
public void msgLeaving(CustomerAgent c) {
      waitingCustomers.remove(c);
      stateChanged();
}
```

<u>Actions</u>

```
tellWaiterToSeatCustomer(CustomerAgent c, Table t, WaiterAgent waiter)
{
      waiter.msgSitAtTable(c, table);
      table.setOccupant(c);
      waitingCustomers.remove(c);
}
```