

Question4 Order food in a restaurant.

Objects:

Customer:

Data:Name

Actions:Order,CallService,Pay,Eat

Menu:

Data:Food,Price

Actions:none

Waiter:

Data:Name

Actions:RecordItem,SendMenuToKitchen,Serve,SendfoodtoCustomer,CheckOut

Kitchen:

Data:none

Actions:Cook,CallWaiter

FrontDesk:

Data:none

Actions:Checkout,Serve

CreditCard/DebitcardCompany:

Data:none

Actions:Authorize

Sequence of invoking behaviors on Objects:

Customer LiLei,

Menu foodlist,

Waiter Hanmeimei,

Kitchen kitchen,

Frontdesk frontdesk,

CreditCard card

if(LiLei.needsOrder)

LiLei.Order->foodname:foodlist

Hanmeimei.RecordItem

Hanmeimei.SendMenuToKitchen->foodlist

kitchen.Cook:food

kitchen.CallWaiter

Hanmeimei.SendfoodtoCustomer:food

```
end
if(LiLei.isDone)
    LiLei.CallWaiter
    Hanmeimei.CheckOut->foodlist:Price
    LiLei.Pay->card:Receipt
else if(LiLei.needsOrder)
    LiLei.Order
else (Lilei.isEating)
    Lilei.Eat
end
```