Cashier
Pata Message
Class 2-11 8 msg Compute B:11 (Water W, Costoner c, String Charle)
Class Bill & bills add (non Bill (w, c, choice)).
hate W;
Costomer c; insytterels The Payment (costoner c, dentle check
String cheice; dente cosh) ?
dentale price, cash, change : it & bill in Lills > 6ill. C== c
enum Bill State ? 5:11. cash = cash;
none, notlemented, keturned from luttere bill. price = check;
3. bill, state = Keturned Frankistaner.
Bill State state;
When menn;
Scheduler Action.
it 3 bill in wills still extere not (empited computer ill (Bill bill)
compute Bill (bill); bill state = none;
if 3 bill in bills > bill state = Returned from lostoner bill in insepteak The checkl
make(hange (bill); Lill price , bill customer);
bills. remove (bill);
makelhange (Bill bill)
if (bill cash - pill price ca)
bill.c. mggenDeNet Hove Freigh
Meney (bill-price-bill-cach);
seturn;
bill.c. ingpleels The Change (bill.
Cash-bill price);

	Cook Mar Shine feed > providing:	
	Cock May String feed > heartery; Data: book low Intered ; false;	Message
	Litt 20-der > orders;	meg Herels The Order ( Woiter W, String
	class Order 9	choice, it table) {
	Woite	orders odd (new order (w, choice,
	String choice,	toule , Order State , pending))
	int table,	3
	OrderState state;	msg Dene (Order o) 8.
	enum Order State:	o. state = cooled; }
	none, gending, cooking, cooked }	mgg Order Fortild ment (Map Esting Hots reply)5.
		for each orde in inventory
	Timer timer; Listemaket > morkets;	order amount to reply getl
1/08	700d (	order), amount;
	istry chile the sale day do	if (order. amount 2 order the school)
	int amount, threshold, capacity;	(culatood=true;
	soulean ordered folse,	
	3. 6 4	mass Denis ( de )
		Actions:
	Scheduler.	giveOrder(order e) {
	if a order in order -> order. stute= Cooked	O. W. msgOrder/s Ready (0);
	return Order ( order ).	orders remarklos;
	7 2 order in orders > order state: peris	
	cookOrder (o-dor);	
		tood f = inventory get (achie)
	if (lowlatood)	if (f. anount of threshold)
	askferSupply();	lantood time;
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	if (f. c'ment = 0)
		order or mass foods Running Out
		(4),

petnin;	
order state - cook by;	
f.arant;	
ther schole { msg Dene (0)}	,
Collet and making and and	,
Mayor Mily 1885 gray south of what gon ( looking pelver, pelver, ever	
There there who do by the history &	
thems, (else " ?!see!	suls .
( Inchidentalis) - gotingen Malanda Francis Inte	
wolfen ntendet Heart	
return Order order) coders return (older coders)	
I godin to enter a a der stote perding I	
cookerde (and ) cookerded by a fi	
(boulands for famous) + (boulands) +	
actions of the first first that	

•	insy theels the change (double change) ?.	Message.
	this money = thouse:	insgNoSeat ()
	msg/c.DeMotHore Friengh Money I denthe debt)	
	this never = delt (customer)	nsg Hotocal Man a) event z noteco;
		way Herets the Check (burney, Cash ser c)
	Porta: double money, check, debt;	this. c= c; this theck = money;
	String name.	magGrotHungig() {
	Host h;	evert= gotHangry;
	Waiter w.	My Then = seas let glines = alots to
	Menn mi	insg Follow Me (Woiter W. Menn m) f
	State state;	this wew;
	Frent erect;	this in my
	enum State 9	event=followtost;
	Doing Hothing, Worting, Seated, devilationene	} : principality
	Ready To Order, Given Order, Lating naily To	All, usy What World Yan Likel ) for the
	Pone toting, leaving northytochase	event = order tood;
	enum Event & de	A storie - decode Tolone It every the
	hone, gottlungry, follow Host, done Thinkly	maghere Is Your Food (Strong choice) {
	order tood gottood denetating deneteer insect, noted, chargehimed, lind private, book in	ng event = got tood;
31	Cashier (	My state = 6/seconder Alexander = 1-1.
le-west	Scheduler	Actions: Iphone estate
. 3	if (state = Daing Northing & levent = got Hunger	y) gotoRestouvent() { 139
	state = Waithy Infestament;	host meg (Wartood ();
	go To Restaurantl);	3- all of the astato
1.0	it state = Waiting In Restaurant & Revent = for	(without) think About Menul) for interest in the choice = variety with 2.
	state = Seated In House Agents	
(Domes)	think About Menn ().	event : wollenes;
	if (state = secreted I herent = deneth in king	if (has Affeotible Food ) (om size);
	state = Ready ToOvelly	tood-choicet until price is atternate;
	AskWaiter ToPickUpOrderl);	this che'ce = food - che'ce;  } ther schedule fevent = dene thinking;
		AskWoite. to Pick Up Order() {
		w.msg Ready To Order (); }

,3/806/c.	Majords World agreety strong govern
if ( state = Ready To Order & Revent = order tood	) GreOrder(){
state = Given Crder;	w. msgterels The Chaice (choice);
Give Order ();	3
if (state: GivenO.der &levent=gotFood)	tattood()s
state = Footing;	timer() {
totfood();	event = dene Eating;
if (state = Zating all event = denetating)	
state: heitingter Bill;	},
asktosill();	leave Toble() }
of Istate = naiting Inkestament & I entend	ieat) w. msg Done Zatihy();
state = decide Taleane	3. Patale mas
Thick About learing;	Thick Abent Learning is S.
it (state=decide to leave ld event = to sta	y random()=0
state = waiting likestaurant.	event = to leave;
if (state = decideToleane I & enert = to lea	ne ek sust
state = Learny	erent = to Stay 13.
(ecre Table ();	Rath he About Menul)
id state = Given Order Sheret= hetred	) shilar to Thick About Menn
state= seated, and A	except when! Hastitadasletood
RethikAbourMenn();	the customer just leaves
if (state = next. 15 for 8:11 Identity 11 Arm)	
state withy to charge	askforkill () 9
askfor Changel);	
	echa-se Arrivell ackforchase () {
state-lainy;	noite meglearly Restaurants);
leanefestanrante);	it (state exerted It entity denote they
of Istate - nent hytor Change I devet	= bodluck) 1 10 10 10 10 10 10 10 10 10 10 10 10 1
: I (state = nent higher Change I d evert state = leav.hig; leave fastaurant;	AckWater laties by grand;

	Host	Message:
	Data:	usy Hullachy (Instener cust) ?
		17 (uslander in railing (uslander . >) constance ( = rest;
	class My Water f. nater ir; storte (none, asking (w Break);	northy (usterly remove ((witches);
	3	it 3 custoner in naithy (ustomer >
	Dela Carrier Service	ing Want To Stay ((usterer cust) ?  if 3 customer in nainty (ustomer >)  customer. c = cust;  customer. state = staying;
	List Clusterer > naiting Customers	msg (Want Food (Lustoner cust) {
	List Clades judies	naiting Customers. add (cust);
	List EWoited waiters	}
	class Table 9	nig Table (stree (Customer east, int timbe) ?
	(ustamer c.	if 3 table in tables >
	int table Number; 3.	table table Number = tinum
class	Mylusteners	table set Undergico(c);
	Molustoner ( (ustiner (; state (mailing, oleciding, staying);)	}
	Scheduler	magnest to Break (Mate m) ?
	Scheduler tool hostoptytable=folse; if I table in tables >	so it I harter in naiters > naitern
	table is Unoccupied	north state asking for Break;
	hos Engly Table : time;	negWart To Cone Back (Worter us {
	if 3 costemer . In norting (astomers >	naitlers add (new Mynaiter(us);
*	custoner state znoit high stay, by	3
	Il voites. size!=0	nother restant is immedication)
	seatlustement unsteren, table);	Action.
	naiting (inteners, venove (costemer);	scutlustomer (Eustemer c, Table t) ?
	if I maker in vaiters > naiter . state=	natters get (randal), w. nsg.
	askfer Break II noviters. sized )7 (	Sit Attable (c, t. table Number):
	natter . w. msg Brek Granted (7;	table set Occupied();
	vailers . remare (naiter);	
	if ( hostopty table ) Il z (ustoner in	
	noitinglustomers > customer state=	
	varithy	
	customer. C. Lag Noseati);	
	instance state = deciding;	

## Market

Darta

(vok C;

Map (String, Int) order;

Map (String, Int) inventary;

bool ader Received, order 7 in wheel;

-false = false

Message

msg Herels The Order (Map order)

this order - orde;

order Received : true;

msg Rone

order this hed = true;

Schednler

if (coder Received)

timer ( vez Done());

order Received is odse;

if (order timished)

return Order (order);

order timished = talse;

Action

returnOrde (1Menp Order)

Map new order order.

for each o in orders.

int sterage = inventory get(0);

int requirement = broker getfo);

it (sterage >= requirement)

new - order put(o, requirement)

inventory: put (o, requirement)

else

now order port (o, requirement)

incentery put (0, 0);

	(Message; ms Food Runs Out (String the ice, int take) ?
	Waiter. Customer is customers > (ustomer is table Mumber - table = no food; oney the electron customer c)?
	.42 constance in customer soughour are
11	Data beclean back Reguest, break fequest; c.check = money;
	List (My lusteness customers; msg Sit At lable (lustomer cost, int table) {
	class My Customer & customers add (new My Customer (cust,
;0	(ustomer c) table northy ) { (ustomer c) ? instead in table; instead in the constant of co
	String food; msg Ready To Order (Customer cust) [
	Customer State; state; He in () customer in customers >
of signals.	enum Customer State
	none, northy, normoney, ready to Order, and
	ordertrisen, order Ready, no Food, usy Herels The Chaile (Customer cust, String chail)
(c. faul)	f. hished toding, checklargated cleaning is (denotement in customers -> customer c =
	filished toding, checkle-puted, leaving it (Benstemer in enstances > customer c =
	Cock c: (votende flooid = choice;
36	Coshier ca; ustantes (ustantes state = order Given; }
	Scheduler msg Order Is Ready (Order o) E.
(950mb)-3	if I cir constances > c.state=finished tooting if (I constance in custances > custance toothe=
	compute Bill (c); o.table!
	it a c in costoners > c state=vaiting customer. state = order Ready }
	seatlustomer (c); usey Pone Barting (lustumer cust) {
house (py	it ] ( in customers > c. state-ready Tolveler if [] customer in customer in stomer is
(1100	actfortheire(c); cust
	it I c in customers > c. State = order titen customer state = f.h. shed bothy };
Taranta.	process broller (c); usy No Meney And Leously ((usterner enst))
	if I c. in customers > c. state = order Ready if I customer in customers > customeric
( 3) 3/3/4)	give Order To Circlomer (c); -cust
	customer statl= noMoney;}

it 7 c in custones > c. state = noMoney	
clearlusterner(c); Action.	
if ze in customers se state = checklenguted seatlastoner (My lustaner c) {  shelheck (c);  c. state = shore;  if z (in customers > c.state = learny c.c. msg followne ( infine clear Customers > c.state = learny }	
shelheck (c); c. state= mone;	
it & ( in costoners > c.state= learny c.c. msg Follow Me ( indoor	-);
delle clear Costoner(c);	
ghe NewMennie); c. state = mone;	
it 2 (in customers-) (istale: netroid asktorcheine (inglustomer c) ?  give NewMennie);  (.state = arone;  (.cmsg what World Youlik	ec);
1 (Jour Smiles) Labillational Jan Jones Milk	
processOrder (My Costones C) {  C statl= none;  cock.msg Herels The Order (	
c.state= none; coser	
cock. msg Herels The Order (	choice, c. table)
alul Distriction of their states	
gelear Listaner (My Custaner	4) {.
host msg Tablels Tree Ci.	, c. table);
host msg Tablelstree (1.1 custamers_remove (1);	
alight to activities by	
give Order To Costomor 1 My Costomer  c. State = none; sand	c) {.
c. state = none of many	
attended to the second of a second the grant below the color was true ford !	c-choice);
(a) 11 is strongs	
greNerMern (Mylastoner c) {	
( State and ) and and solver ( State and ; where	
C. C. may Notaed (new inter	
C.che	(4) }
compute Bill (My (ustener c) {	
cotate= none; ca. insg(oup ite B:11 ( c.c.,	c. sheire 3
zwelheck (Mylnstoner c) {	
c.L.msgHeelsThetheck (c.	Check, ca);
3	