

Class Restaraunt

```
{  
    public:-  
        string owner();  
        list<string> Employees();  
        list<string> Customers();  
    private:-  
        list<string> employees;  
        string owner;  
        list<string> customers;  
};
```

class Employee {

```
    public:  
        virtual list<int pay> payments() = 0;  
        int payroll();  
        string name();  
        virtual int total earned() = 0  
    private:-
```

```
        int payroll;  
        string name;  
        string skill;
```

```
};
```

```
Class Chefs : public Employee {
```

```
public:-  
    list < string name > chefs_working();  
    queue < string orders > OrderDelivery();  
    list < int pay > Payments();  
    int TotalEamed();
```

```
private:
```

```
    list < string name > chefs;  
    map < string, skill, list < string name > chefs;  
    list < int pay > payments;  
    int totalEamed;  
    queue < string orders > order;
```

```
};
```

Class Waiters : public Employee {

public:-

list < string customers > Customers Present();

list < string name > Waiters Working();

list < int pay > Payments();

int Total Earned();

list < int tips > Tips Earned();

private:

list < string customers > customers;

list < string name > waiters;

list < int tips > tips earned;

map < string name, list < string customers > customers > waiters;

list < int pay > payments;

int total earned;

};

```
Class Hosts: public Employees  
{
```

```
    public;  
    list < string name > get hosts();  
    list < int pay > get payments();  
    int Total Earned();
```

```
private:-
```

```
    list < string name > hosts;  
    list < int pay > payments;  
    int pay total;
```

```
};
```

Class Customer {

bool IsParty();

int NumPersons();

int TableNumber();

String PeopleType();

list<String order> Ordered;

double Bill();

string CustomerName();

private:-

int table number;

bool having party;

int num-persons;

string people-type;

double bill;

list<String order> order;

string name;

};

In this question, we had a Class Restraunt, and it "has-a" relationship with Class employees and also with Class Customer,

The classes waiter, chef, hosts are publicly inherited from employees.

And there are two pure virtual functions which are list of payments and total earned.