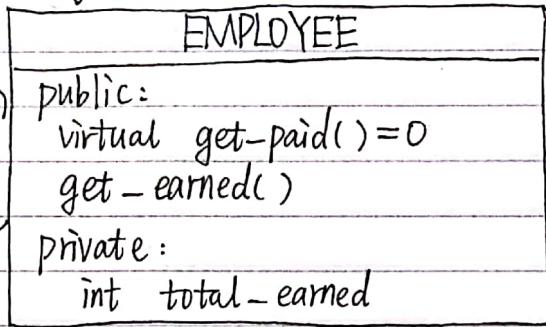


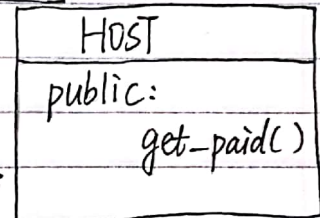
↓ The owner class has a list of Employee objects



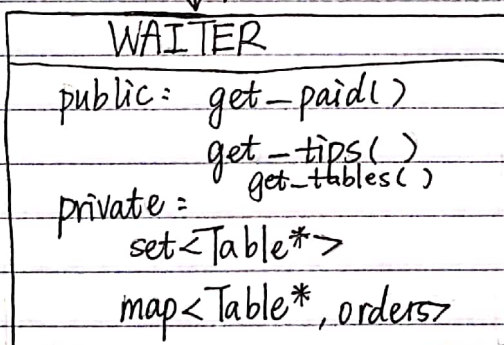
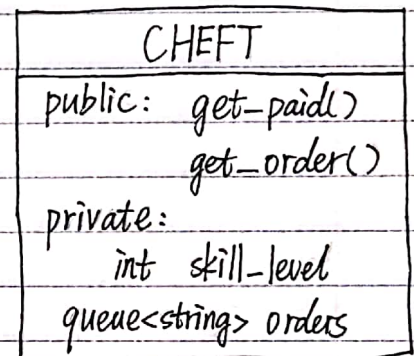
Abstract Class

& a set of Table objects

public

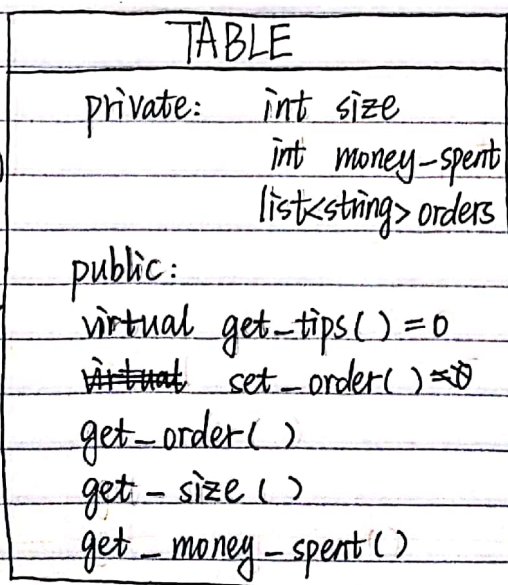


Public



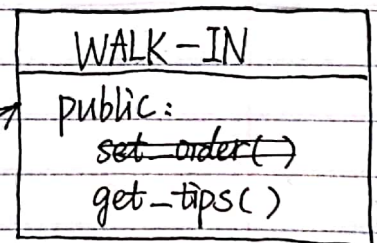
public

↓ The waiter class has a set of Table objects

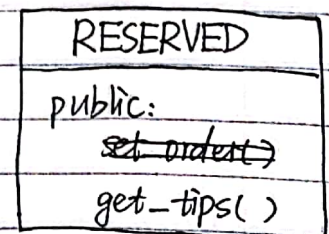


Abstract class

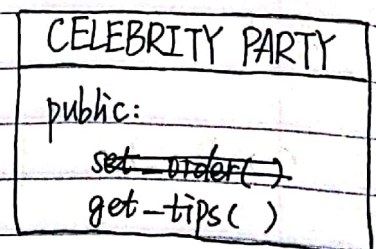
public



public



public



Explanation:

The **EMPLOYEE** class is an abstract class which has a virtual function called `get_paid()`. The `get_paid()` function will get the amount of money the employee will earn each time based on the type of the employee. Thus, the `get_paid()` function is not implemented in the **EMPLOYEE** class but in the subclasses that inherit from it.

Class **HOST**, **CHEFT**, and **WAITER** all publicly inherited from **EMPLOYEE** class, each of which has the `get_paid()` function implemented.

The **TABLE** class is another abstract class with has the virtual functions `get_tips()`. The `get_tips()` will get the amount of tips each table gains, which depends on the size of the table and the type of the party. Thus, the `get_tips()` function is not implemented in the **TABLE** class but in the subclasses that inherit from it.

Class **WALK-IN**, **RESERVED**, and **CELEBRITY PARTY** all publicly inherited from **TABLE** class. The `get_tips()` functions are implemented inside these classes.

The **OWNER** class has a list of **EMPLOYEE** objects and a set of **TABLE** objects. The list of **EMPLOYEE** objects allows the **OWNER** class to compute the gross amount of money/pay employees earned by iterating through the list of all employees (including tips), and, at any particular time, to indicate how many customers a waiter is serving. Besides, the `get_all_employees()` function of the **OWNER** class will return a list of **EMPLOYEE** objects.

The **WAITER** class has a set of **TABLE** objects, which represents the tables that a waiter waits on. The `get_tables()` function will return a list of **TABLE** objects.

Only the **EMPLOYEE** and **TABLE** class are abstract.