

Restaurant is not an abstract class because it does not have any pure virtual functions Parties and employees are abstract classes because they contain pure virtual functions tip in the parties class is a pure virtual function because it has no implementation if that class, rather it is defined in the type sub-classes of parties tip is a virtual function in walkins and reserved, but not in celeb be cause celeb hers a constant tipping algorithm while Walk-in and reserve tip arbounds vary based on the size of the party boy in the employees dass is a pure virtual function because don pay type in the employees sub-classes lare alinique has-a relationships is-a relationships Resturant has a owner has a compleyees Chess 4-2 employees wonters is a > employees waiters has owner Mosts was employees Walk in has a tipe double Walk-in 5-5 parties
celeb is parties
reserve is a parties restaurant -> has-a parties. struct Explanations

I chose for owner not to inherit from employees because they do not get paid the same way.

restaurant has a parties in order to calculate functions such as the # of customers per waiter, and gross payment pased on type