```
cancelFood(UID, serve_date, meal){
        r = Reserve.find(UID, serve_date, meal);
        if(r == null){
                return("unsuccessful");
        } else {
                Reserve.delete(r);
                return("unsuccessful");
        }
}
reserve(UID,serve_date,meal){
        is_done = Reserve.insert(UID,serve_date,meal);
        if( is_done )
                return("successful");
        else
                reutrn("fail");
}
increase_credit(UID, credit) {
  u =  User.find(UID);
        bool = make_bank_transaction(credit);
        if(bool){
                User.update(UID, credit);
                result = IncreaseCreditLog.create(UID, credit);
                return ("successful");
        } else {
                return ("unsuccessful");
        }
}
```

```
make_bank_transaction(amount) {
    transacted = transact(amount)
    if(transacted == amount) {
        return true;
    } else {
        return false;
    }
}
transfer_credit(src_id, dest_id, amount) {
    src = User.find(src_id);
    dst = User.find(dest_id);
    if(src.credit < amount) {
        return false;
    } else {
        src.credit -= amount;
        dst.credit += amount;
        src.save();
        dst.save();
        return true;
    }
}
getActivityReport(start_date, end_date, UID, reportType){
            if(reportType == increase){
                        result = IncreaseCreditReport.findMatching(UID, start_date, end_date);
            } else {
                        result = TransportCreditReport.findMatching(UID, start_date, end_date);
            }
            return result;
}
```

```
getFoodSchedule(UID, week_start_date, week_end_date){
    u = User.find(UID);
    g = u.gender;
    result = Serve.findMatching(UID, start_week_date, end_week_date, g);
    return result;
}
login ( UID , password ){
    valid = User.find ( UID , password );
    if (valid)
        return ("successful") ;
    else
        return ("fail") ;
}
logout(UID){
    u = User.find(UID);
    if(u == null){
        return("logout unsuccessful!");
    } else {
        return("logout successful!");
    }
}
registerUser(UID, password, name, gender){
    u = User.find(UID);
    if(u == null){
        User.insert(UID, password, name, gender);
        return("successfully registered");
    } else {
        return("user exists!");
    }
}
```

```
determine_food(foodName,price){
    f = Food.find(foodName);
    if(f == null){
        Food.insertFood(foodName,price,false);
        return ("new food inserted successfully");
    } else {
        Food.updateFood(foodName,price,false);
        return ("food updated successfully");
    }
}
determine_food_paln(){
    Serve.insertFood(foodName,date,meal);
    if (Food.has(foodName)){
        return (“done!”);
    } else {
        return (“failed to do so!”);
    }
}
get_food_statistics( serve_date, meal , gender ){
    food_status_table = Serve.findMatching( serve_date, meal , gender );
    return ( food_status_table );
}
food_statistics_search( meal , serve_date, gender){
    reserve_table = Reserve.findMatching(meal , serve_date, gender);
    retuen ( reserve_table );
}
```

```
approve_food_price(listOfFoodRequests[]){
    foodPrices = Food.findPrice(listOfFoodRequests[]);
    foreach(food : listOfFoodRequests){
        if(Exist){
            appropriatePrice = getAppropriatePrice(foodName);
            if(appropriatePrice == foodPrice){
                Food.updateApproved(foodName);
            }
        } else {
            return false;
        }
    }
}
```