interface ITrainer{

    private addTrainingProgram(member: Member, program: TrainingProgram);

    private trackHealthandSportsInfo(member : Member);

}

class Trainer:ITrainer{

    private int staffID;

    private string name;

    private List<string> specialities;

    public LogIn();

    public LogOut();

}

class TrainingProgram:Trainer{

    private int programID;

    private string programName;

    private List<string> contents;

    private int duration;

    private AddContents(contents:List<string>);

    private RemoveContents(contents : List<string>);

    public getTrainingProgram();

}

interface IDietician{

    private addNutritionProgram(member: Member, program: NutritionProgram);

    private trackHealthandSportsInfo(member : Member);

    public getReport();

}

class Dietician:IDietician{

    private int staffID;

    private string name;

    private List<string> specialities;

    public LogIn();

    public LogOut();

}

class NutritionProgram:Dietician{

    private int programID;

    private string programNAme;

    private List<string> foods;

    private List<string> supplements;

    private AddFoods(foods : List<string>);

    private RemoveFoods(foods : List<string>);

    private AddSupplement(supplements : List<string>);

    private RemoveSupplement(supplements : List<string>);

    public getNutritionProgram();

}

interface IManager{

    private defineMembershipPackages(packet: Packet);

    private defineSalon(salon: Salon);

    private defineSession(session : Session);

    private addVitaminBarProduct(product : VitaminBarProduct);

    private sendSMS(message : string);

    private addTrainer(trainer : Trainer);

    private addDietician(dietician : Dietician);

}

class Manager:IManager{

    private int managerID;

    private string username;

    private int password;

}

class VitaminBarProduct:Manager{

    private int productID;

    private string productName;

    private double price;

    private updatePrice(price: double)

    public getVitaminBar()

}

class Salon:Manager {

    private int salonID;

    private string salonName;

    private int capacity;

    private updateCapacity(capacity: int);

    public getSalonInfo();

}

class Packet:Manager {

    private int packetID;

    private string packetName;

    private int duration;

    private double price;

    private List<string> features;

    private AddFeature(features : string);

    private RemoveFeature(features : string);

    public getPacketInfo();

}

class Session:Manager{

    private int sessionID;

    private Time startTime;

    private Time endTime;

    private UpdateSessionTime(startTime:Time, endTimeÇ Time);

    public getSessionInfo()

}

interface IMember{

    private viewNutritionProgram(member : Member);

    private viewTrainingProgram(member : Member);

    private buyPacket(packet : List<Packet>);

    public getReport();

}

class Member:IMember{

    private int memberID;

    private Date membershipStartDate;

    private Date membershipEndDate;

    private int wristbandID;

    public getMemberInfo();

}