CSIS 137
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UML for Homework 4 (final)

Main

#include "OvernightPackage.h"
#include "Package.h"
#include "TwoDayPackge.h"

OvernightPackage : Package

public:

+OvernightPackage(const string &, const string &, const string &, const string &, const string &, const string &,
           double, double, double);

+ void setOverNightFeePerOunce(double);
+ double getOverNightFeePerOunce() const;
+ double calculateCost() const;

private:
- double overnightFeePerOunce;

Package

private:
        - string name;
        - string address;
        - string city;
        - string state;
        - string senderzip;
        - string reczip;
        - double weight;
        - double costperounce;

public:

+ Package(const string &, const string &, const string &, const string &,
  const string &, const string &, double = 0.0, double = 0.0);

// getters and setters
+ void setName(const string &);
+ string getName() const;
+ void setAddress(const string &);
+ string getAddress() const;
+ void setCity(const string &);
+ string getCity() const;
+ void setState(const string &);
+ string getState() const;
+ void setSenderZip(const string &);
+ string getSenderZip() const;
+ void setRecZip(const string &);
+ string getRecZip() const;
+ void setWeight(const double &);
+ double getWeight() const;
+ void setCostPerOunce(const double &);
+ double getCostPerOunce() const;

+ double calculateCost(double, double); // multiply weight * cost per ounce

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TwoDayPackage : Package

public:
+ TwoDayPackage(const string &, const string &, const string &, const string &, const string &, const string &, double, double, double);
+ void setFlatFee(double);
+ double getFlatFee() const;
+ double calculateCost() const;

private:
- double flatFee;