Team Simplicity: Ryan Siu, Eric Zhang, Tiffany Moi APCS2 Pd5 HW47 -- Are We There Yet? 2017-06-02

City + class City - int _pop - int _xcor - int _ycor - String _name - boolean status + City() + City(String n, int pop, int screenSize + String getCityName() + int getPop() + int getXcor() + int getYcor() + int getPrice(){ + void setStatus(boolean n){ + String toString()

Driver

- + class Driver
- + static final int SCREEN_SIZE
- static ArrayList<Airplane> airplanes
- static ArrayList<City> cities
- static ArrayList<FlightRoute> flights
- static int money
- static String planeMenu()
- static String cityMenu()
- static int fact(int n)
- static ArrayList<FlightRoute>
 possibleFlights()

- static void updateFlights()
- static String prompt(String query)

Airplane

- + class Airplane
- String _name
- int _range
- int _speed
- int _capacity
- int _price
- int _fuelCapacity
- int _status
- City _currCity
- double _efficiency
- int _tank
- boolean _bought
- int _state
- + Airplane()
- + Airplane(String name, int range, int speed, int capacity, int price, int fuelCapacity, City currCity)
- + String getAirplaneName()
- + int getRange()
- + int getSpeed()
- + int getCapacity()
- + int getPrice()
- + int getFuelCapacity()
- + int getStatus()
- + City getCity()
- + double getEfficiency()
- + int getTank()
- + boolean getBought()
- + int getCost()
- + int setStatus(int status)
- + City setCity(City city)
- + int setTank(double distance)

- + void setState(int n)
- + void setBought()
- + int check(double distance)
- + boolean full()
- + void refuel()
- + String toString()

Driver

- + class Driver
- + static final int SCREEN_SIZE
- static InputStreamReader isr
- static BufferedReader in
- static ArrayList<Airplane> airplanes
- static ArrayList<City> cities
- static ArrayList<FlightRoute> flights
- static int money
- static String planeMenu()
- static String cityMenu()
- static int fact(int n)
- static ArrayList<FlightRoute>
 possibleFlights()
- static void updateFlights()
- static String prompt(String query)

Shop

- + static Airplane[] airplanes
- + static City[] cities
- + static City popCity()
- + static void removeCity(int index)
- + static Airplane[]
- toBeFilled(ArrayList<Airplane> list)
- + static Airplane buy(Airplane original)

FlightRoute

- + class FlightRoute
- City _departCity
- City _arriveCity
- double _distance
- int _profit
- Airplane _plane
- int tickPrice
- long _timeStart, _timeEnd
- + FlightRoute()
- + FlightRoute(City departCity, City arriveCity, Airplane plane)
- + City getDeparture()
- + City getArrival()
- + double getDistance()
- + int getProfit()
- + Airplane getAirplane()
- + int getTicketPrice()
- + long getEndTime()
- + long getStartTime()
- + City setDeparture(City newCity)
- + City setArrival(City newCity)
- + Airplane setAirplane(Airplane newPlane)
- + int setTicketPrice(int newPrice)
- void updateDistance()
- void updateProfit()
- int autoCalcPrice()
- void updateTime()
- + long getTimeRem()
- + long getTimeElapsed()
- + long totalTime()
- + String toString()

Menu (part of GUI)

int borderSize, innerBorderSize, bezel,
textSize;

color themeColor;

String title;

T[] contents;

void create()
int maxContent()

MenuItem

int x, y, width, height, borderSize, bezel; int themeColor;

T content;

void create()