CIS 22B Lab 1 Itty Bitty Airfreight (IBA)

#### 500 Points

Topics:

Functions

struct

Pass by Reference

New and Delete

**The anti AI constraints**:

Any C++ terms, constructs and/or methodologies covered in CIS 22A are available for your use.

You may only use additional C++ constructs or terms covered in lecture or zyBook (ebook) reading

assignments found in modules 1 and 2. Deviation from these constraints lose points.

Welcome to Itty Bitty Airfreight. We are a small, one airplane, local, airfreight company. We specialize in freight charters, special handling and quick turnaround shipments. If you need something delivered in the West, we are your solution. We do the smaller, local airports as well as the major airports.

What we need from you, the programmer, is the following:

Data input and output using a struct as follows:

uld – Unit type, a string. Either a container or pallet

abbr – abbreviation, a string. e.g. AYF, PAG and so on

uldid - Unit identifier, a string. Container or Pallet abbreviation + five digits + airline code; our ID code is IB, e.g. AYF12345IB

air - Aircraft type, an integer. Ours is a 737.

weight - Weight: The weight, in pounds, of the loaded container or pallet. It is a double.

dest – Destination, a string. A three alpha character IATA string, e.g. MFR (Medford, OR), or PDX (Portland, OR)

Prompt the user for the information above and store it in a struct on the heap (use new), then output the data in a neat format.

Once your output is complete, delete your struct and terminate your program.

Your program MUST use at least three functions, including main.

Pass your struct to your functions using pass by reference.

Sample output might look like this:

Unit type Container

Unit abbreviation AYF

Unit ID AYF12345IB

Aircraft 737

Weight 1104 pounds

Destination SMF

You can set up your struct like this:

struct Cargo

{

string uld;

string abbr;

string uldid;

int air;

double wt;

string dest;

};

Submit your lab one using Canvas, submitting only your .cpp file. It is helpful to use a file

naming method showing your name, e.g. FlintstoneFredlab1.cpp, substituting your name

for Fred’s, of course. Remember, late labs lose points.