LAB 1G – 2/11/2015 – Pete Wilcox

Algorithm to look up someone’s phone number in a phone book by name

#include <iostream>

#include <fstream>

#include <string>

//Include fstream to look up info in the phonebook, string to handle strings

string pbFirst, //Define string variables for first and last names from user input and the phone book

pbLast,

inputFirst,

inputLast;

int pbPhone; //Int variable for phone book

int lookup(string, string); //function to look up the name in the phonebook

void main() {

//Get the lookup name from the user

cout << “Input the person’s first name: “;

cin << inputFirst;

cout << endl << “Input the person’s last name: “;

cin << inputLast;

cout << endl << “Looking up name now.”;

//Call the lookup function to find the phone number

pbPhone = lookup(inputFirst, inputLast);

//Print name found

cout << endl << “Found entry for “ << pbFirst << “ “ << pbLast << “ “ << pbPhone;

//Pause so user can copy info

system(“pause”);

}

void lookup(string lookupFirst, string lookupLast) {

int lookupPhone; //the phone number

//Open the phonebook file

fstream inFile.open(“phonebook.txt”);

do {

inFile >> pbLast; //set pbLast to the name in the file

} while (pbLast != lookupLast); //Do this until pbLast matches the user input

do {

inFile >> pbFirst; //do it for first name

} while (pbFirst != lookupFirst);

inFile >> lookupPhone; //assign the phone number

return(lookupPhone);

}