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SE 124.12

Program 2

PURPOSE:

Your airline dispatcher would like you to produce a sequential disk file with airline flight data.

The program should ask the user of the program to enter the data in response to prompts from the keyboard.

Call the file "airline\_data.txt".

Save the file to a storage device then extract the data from the file and display it on the monitor.

VARIABLE DICTIONARY:

REPRESENTS TYPE VARIABLE

Flight Number int flight\_number

Passengers int passengers\_int

Code char code\_char

Enter More Records char enter\_records

Run Reply char run\_reply

Destination string destination\_string

Origin string origin\_string

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#include <iostream>

#include <string>

#include <fstream>

using namespace std;

int flight\_number;

int passengers\_int;

char code\_char;

char run\_reply;

string destination\_string;

string origin\_string;

void create\_function();

void extract\_function();

ofstream fout;

ifstream fin;

int main()

{

cout << "Do you want to run the Airline Flight Data program? (Y/N) ";

cin >> run\_reply;

run\_reply = toupper(run\_reply);

while (run\_reply != 'Y' && run\_reply != 'N')

{

cout << "Invalid response " << endl;

cout << "Please enter either a Y or an N " << endl;

cin >> run\_reply;

run\_reply = toupper(run\_reply);

}

system("cls");

if (run\_reply == 'Y')

{

create\_function();

extract\_function();

}

return 0;

}

void create\_function()

{

fout.open("airline\_data.txt");

while (run\_reply == 'Y')

{

cout << "Flight Number: ";

cin >> flight\_number;

cout << "Origin: ";

cin >> origin\_string;

cout << "Destination: ";

cin >> destination\_string;

cout << "Passengers: ";

cin >> passengers\_int;

cout << "Code: (O/C/D) ";

cin >> code\_char;

code\_char = toupper(code\_char);

while(code\_char != 'D' && code\_char != 'C' && code\_char != 'O')

{

cout << "Invalid response ";

cout << "Please enter either an O, C, or D ";

cin >> code\_char;

code\_char = toupper(code\_char);

}

fout << flight\_number << " " << origin\_string << " " << destination\_string << " " << passengers\_int << " " << code\_char << " " << endl;

system("cls");

cout << "Would you like to enter more records? (Y/N) ";

cin >> run\_reply;

run\_reply = toupper(run\_reply);

while(run\_reply != 'Y' && run\_reply != 'N')

{

cout << "Invalid response ";

cout << "Please enter either a Y or an N ";

cin >> run\_reply;

run\_reply = toupper(run\_reply);

}

system("cls");

}

fout.close();

}

void extract\_function()

{

fin.open("airline\_data.txt");

cout << "Here is your Airline Flight Report: " << endl;

cout << "(Flight Number, Origin, Destination, Passengers, and Code) " << endl;

fin >> flight\_number >> origin\_string >> destination\_string >> passengers\_int >> code\_char;

while(!fin.eof())

{

cout << flight\_number << " " << origin\_string << " " << destination\_string << " " << passengers\_int << " " << code\_char << " " << endl;

fin >> flight\_number >> origin\_string >> destination\_string >> passengers\_int >> code\_char;

}

system("pause");

fin.close();

}