// ========================

// Attached: HW\_6a, HW\_6b, HW\_6c, HW\_6d, HW\_6e

// ========================

// Program: HW\_6a.ccp

// ========================

// Programmer: Milo Fisher

// Class: CS 1B

// ========================

#include<iostream>

#include<fstream>

using namespace std;

int main()

{

ifstream inFile;

int num;

inFile.open("data.txt");

if (inFile.fail())

cout << "Error opening file!";

else

{

cout << "Here are the numbers in the file:";

while (!inFile.eof())

{

inFile >> num;

cout << "\n\t" << num;

}

}

inFile.close();

cout << endl;

system("pause");

return 0;

}

// ============== OUTPUT ================

/\*

Here are the numbers in the file:

3

4

5

Press any key to continue . . .

\*/

// ======================================

// ========================

// Attached: HW\_6a, HW\_6b, HW\_6c, HW\_6d, HW\_6e

// ========================

// Program: HW\_6b.ccp

// ========================

// Programmer: Milo Fisher

// Class: CS 1B

// ========================

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

ifstream inFile;

ofstream outFile;

int num;

string out;

inFile.open("data.txt");

if (inFile.fail())

cout << "Error opening file!";

else

{

outFile.open("resources.txt");

cout << "Here are the numbers in the file:";

while (!inFile.eof())

{

inFile >> num;

outFile << num << endl;

cout << "\n\t" << num;

}

cout << "\n\nThe data has been written to the file.";

}

inFile.close();

outFile.close();

cout << endl;

system("pause");

return 0;

}

// ============== OUTPUT ================

/\*

Here are the numbers in the file:

3

4

5

The data has been written to the file.

Press any key to continue . . .

\*/

// ======================================

// ========================

// Attached: HW\_6a, HW\_6b, HW\_6c, HW\_6d, HW\_6e

// ========================

// Program: HW\_6c.ccp

// ========================

// Programmer: Milo Fisher

// Class: CS 1B

// ========================

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

ifstream inFile;

ofstream outFile;

int num;

string out;

inFile.open("data.txt");

if (inFile.fail())

cout << "Error opening file!";

else

{

outFile.open("resources.txt");

cout << "Here are the numbers in the file:";

while (!inFile.eof())

{

inFile >> num;

outFile << num << endl;

cout << "\n" << num;

}

}

inFile.close();

outFile.close();

outFile.open("resources.txt", ios::app);

cout << "\nEnter 3 more numbers:\n";

for (int i = 0; i < 3; i++)

{

cin >> num;

outFile << num << endl;

}

cout << "The numbers have been written (appended) to results.txt";

outFile.close();

cout << endl;

system("pause");

return 0;

}

// ============== OUTPUT ================

/\*

Here are the numbers in the file:

3

4

5

Enter 3 more numbers:

6

7

8

The numbers have been written (appended) to results.txt

Press any key to continue . . .

\*/

// ======================================

// ========================

// Attached: HW\_6a, HW\_6b, HW\_6c, HW\_6d, HW\_6e

// ========================

// Program: HW\_6d.ccp

// ========================

// Programmer: Milo Fisher

// Class: CS 1B

// ========================

#include<iostream>

#include<fstream>

using namespace std;

struct Cat { char name[20]; int age; void displayData() { cout.width(12); cout << left << name << right << age << endl; } };

int main()

{

ofstream outFile;

char name[20];

int age;

Cat cat;

outFile.open("critters.bin", ios::out | ios::binary);

cout << "Enter 3 cat records.\n";

for (int i = 0; i < 3; i++)

{

cout << "Enter information about a cat:\nNAME: ";

cin.getline(name, 20);

cout << "AGE: ";

cin >> age;

cin.ignore();

strcpy\_s(cat.name, name);

cat.age = age;

outFile.write((char\*)&cat, sizeof(Cat));

}

outFile.close();

cout << "Record written to File.\n";

system("pause");

return 0;

}

// ============== OUTPUT ================

/\*

Enter 3 cat records.

Enter information about a cat:

NAME: Tom

AGE: 5

Enter information about a cat:

NAME: Fluffy

AGE: 3

Enter information about a cat:

NAME: Sweet Pea

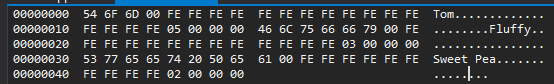
AGE: 2

Record written to File.

Press any key to continue . . .

\*/

// ======================================



// ========================

// Attached: HW\_6a, HW\_6b, HW\_6c, HW\_6d, HW\_6e

// ========================

// Program: HW\_6e.ccp

// ========================

// Programmer: Milo Fisher

// Class: CS 1B

// ========================

#include<iostream>

#include<fstream>

#include<iomanip>

using namespace std;

struct Cat { char name[20]; int age; void displayData() { cout.width(12); cout << left << name << right << age << endl; } };

int main()

{

ofstream outFile;

ifstream inFile;

char name[20];

int age;

Cat cat;

outFile.open("critters.bin", ios::out | ios::binary);

cout << "Enter 3 cat records.\n";

for (int i = 0; i < 3; i++)

{

cout << "Enter information about a cat:\nNAME: ";

cin.getline(name, 20);

cout << "AGE: ";

cin >> age;

cin.ignore();

strcpy\_s(cat.name, name);

cat.age = age;

outFile.write((char\*)&cat, sizeof(Cat));

}

cout << "Record written to File.\n\n";

outFile.close();

outFile.open("critters.bin", ios::out | ios::binary | ios::app);

cout << "Enter one more cat\nNAME: ";

cin.getline(name, 20);

cout << "AGE: ";

cin >> age;

strcpy\_s(cat.name, name);

cat.age = age;

outFile.write((char\*)&cat, sizeof(Cat));

outFile.close();

inFile.open("critters.bin", ios::in | ios::binary);

cout << "\nHere is a list of all the cats:\n";

for (int i = 0; i < 4; i++)

{

inFile.read((char\*)&cat, sizeof(Cat));

cat.displayData();

}

inFile.close();

system("pause");

return 0;

}

// ============== OUTPUT ================

/\*

Enter 3 cat records.

Enter information about a cat:

NAME: Tom

AGE: 5

Enter information about a cat:

NAME: Fluffy

AGE: 3

Enter information about a cat:

NAME: Sweet Pea

AGE: 2

Record written to File.

Enter one more cat

NAME: Jasmine

AGE: 4

Here is a list of all the cats:

Tom 5

Fluffy 3

Sweet Pea 2

Jasmine 4

Press any key to continue . . .

\*/

// ======================================

