```
// Name: James Small
// Program: 2B
// Class: CSE455
// Description: Input class Implementation File
#include "Input.h"
#include <fstream>
#include <iostream>
#include <vector>
using namespace std;
// This is the default constructor
Input::Input(string fileName)
{
    this->fileToRead = fileName;
}
// This method asks user for a set of numbers and outputs them to a file
void Input::writeToFile()
{
    int count = 0;
    float currentValue;
    cout << "Enter the amount of numbers to write: ";</pre>
    cin >> count;
    ofstream outfile;
    outfile.open(fileToRead.c_str());
    for (int i = 0; i < count; i++) {
        cout << "Enter number " << i + 1 << ": ";</pre>
        cin >> currentValue;
        if (i == count - 1)
            outfile << currentValue;</pre>
        else
            outfile << currentValue << " ";</pre>
    }
    outfile.close();
}
// This method reads in a set of numbers from a file and displays them on screen
void Input::readFromFile()
{
    ifstream infile;
    infile.open(fileToRead.c_str());
```

```
float currentValue = 0;
    while (!infile.eof()) {
        infile >> currentValue;
        cout << currentValue << endl;</pre>
    }
    infile.close();
}
// This method modifies an existing file one line at a time.
void Input::modifyFile()
{
    ifstream infile;
    infile.open(fileToRead.c_str());
    float currentValue = 0;
    int choice;
    vector<float> currentNumbers;
    bool acceptAllNumbers = false;
    while (!infile.eof()) {
        infile >> currentValue;
        if (acceptAllNumbers) {
             currentNumbers.push_back(currentValue);
        } else {
             cout << "\nWhat would you like to do with this number, " <<</pre>
                 currentValue << "?\n";</pre>
             cout << "Enter 1 to accept this number.\n";</pre>
             cout << "Enter 2 to replace this number.\n";</pre>
             cout << "Enter 3 to delete this number.\n";</pre>
             cout << "Enter 4 to insert a new number after current number.\n";</pre>
             cout << "Enter 5 to accept the remainder of the numbers.\n";</pre>
             cout << "Choice: ";</pre>
             cin >> choice;
             switch (choice) {
                 case 1:
                     currentNumbers.push_back(currentValue);
                 case 2:
                     currentNumbers.push_back(enterNumber());
                     break:
                 case 3:
                     break:
                 case 4:
                     currentNumbers.push back(currentValue);
                     currentNumbers.push_back(enterNumber());
                     break:
                 case 5:
                     currentNumbers.push_back(currentValue);
```

```
acceptAllNumbers = true;
                      break;
                 default:
                      break;
             }
         }
    }
    infile.close();
    cout << "\nWould you like to replace the current file or create a new file?</pre>
    cout << "Enter 1 to replace the current file's contents.\n";</pre>
    cout << "Enter 2 to create a new file.\n";</pre>
    cout << "Choice: ";</pre>
    cin >> choice;
    if (choice == 2) {
         cout << "Enter the file name to access: ";</pre>
         cin >> fileToRead;
    }
    ofstream outfile;
    outfile.open(fileToRead.c_str());
    for (int i = 0; i < currentNumbers.size(); i++) {</pre>
         if (i == currentNumbers.size() - 1)
             outfile << currentNumbers[i];</pre>
         else
             outfile << currentNumbers[i] << " ";</pre>
    }
}
float Input::enterNumber()
    float current = 0;
    cout << "\nEnter number: ";</pre>
    cin >> current;
    return current;
}
```