```
 1 /*************************************************
 2  * PROGRAMMER : Ali Eshghi & Jonathan Aguirre
 3  * STUDENT ID : 1112261 & 1094753
 4  * CLASS      : CS1B
 5  * SECTION    : MW 7:30pm
 6  * LAB #6     : Structs
 7  * DUE DATE   : 1 October 2019
 8  *************************************************/
 9 #ifndef MYHEADER_H_
10 #define MYHEADER_H_
11
12 #include <iostream> // input output
13 #include <iomanip>  // Calculations
14 #include <stdio.h>  //
15 #include <fstream>  // input and output files
16 #include <string>   // strings
17 #include <sstream>  // ostringstream
18 using namespace std;
19
20
21 struct information
22 {
23     string name;
24     int    balance;
25     int    id;
26 };
27
28 /*****************************************************************************
29  * Function : PrintHeader
30  *
    ------------------------------------------------------------------------
31  * This function stores the header file into a string variable and
    returns that
32  * string variable to a string variable in the main called "header"
33
    *****************************************************************************/
34
35 string PrintHeader(const string PROGRAMMER,
36                    const string CLASS,
37                    const string SECTION,
38                    const int    ASSIGN_NUM,
```

```
39                      const string ASSIGN_NAME);
40
41
42 /*****************************************************************************
43  * Function : Input
44  *
45  * This function gets the data from the input file and puts them in order in
46  * the parallel arrays for the name, id, and balance using a while loop. This
47  * is a void type function, so it doesn't need any return.
48
49 *****************************************************************************/
50 void Input(ifstream &inFile,
51            const int AR_SIZE,
52            struct information personalData[]);
53
54
55 /*****************************************************************************
56  * Function : SearchBalance
57  *
58  * This function searches for the largest or smaller balance in the balance
59  * array using a for loop and then returns an integer type variable as the
60  * index of the  larger balance in the array to an integer type variable in
61  * the main named "balanceIndex".
62
63 *****************************************************************************/
64 int SearchBalance(struct information personalData[],
65                   int option,
66                   const int AR_SIZE);
```

```
67
68
69 /**********************************************************************
   ***********
70  * Function : SumOrAvg
71  *
   ----------------------------------------------------------------------
   --------
72  * This function gets all the balances from the list using a for
   loop
73  * and add them up together to get the sum and average of all the
   balances.
74  * then returns a float type variable to a float variable in the
   main called
75  * "sumOrAvg".
76
   **********************************************************************
   **********/
77
78 float SumOrAvg(struct information personalData[],
79                int option,
80                const int AR_SIZE);
81
82
83 /**********************************************************************
   ***********
84  * Function : SearchName
85  *
   ----------------------------------------------------------------------
   --------
86  * This function prompts the user that who is the user searching
   for and uses
87  * while loop and an boolean expression to check the name array and
   if the name
88  * was found, returns the index of the array to be used in the
   parallel arrays
89  * and if the name was not found, lets the user know
90
   **********************************************************************
   **********/
91
92 int SearchName(struct information personalData[], const int
   AR_SIZE);
```

```
 93
 94
 95 /
    ************************************************************************
    ***********
 96  * Function : FileOutput
 97  *
    ------------------------------------------------------------------------
    --------
 98  * This function will out put the results that were assigned to
    variables in
 99  * the main from the other functions to the output file. the
    function is a void
100  * type function, so it doesn't need any return.
101
    ************************************************************************
    **********/
102
103 void FileOutput(ostream &outFile,
104                 struct information personalData[],
105                 int      option,
106                 int      balanceIndex,
107                 float    sumOrAvg,
108                 int      nameIndex);
109
110 #endif /* MYHEADER_H_ */
111
```