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 1 /*********************************************
 2  * PROGRAMMER : Ali Eshghi
 3  * STUDENT ID : 1112261
 4  * CLASS      : CS1B
 5  * SECTION    : MW 7:30pm
 6  * Assign #1  : Functions and arrays
 7  * DUE DATE   : 19 September 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 /*****************************************************************************
22  * Function : PrintHeader
23  * ---------------------------------------------------------------------------
24  * This function stores the header file into a string variable and returns that
25  * string variable to a string variable in the main called "header"
26  *****************************************************************************/
27
28 string PrintHeader(const string PROGRAMMER,
29                    const string CLASS,
30                    const string SECTION,
31                    const int    ASSIGN_NUM,
32                    const string ASSIGN_NAME);
33
34
35 /*****************************************************************************
36  * Function : Input
37  * ---------------------------------------------------------------------------
38  * This function gets the data from the input file and puts them in order in
39  * the parallel arrays for the name, id, and balance using a while loop. This
40  * is a void type function, so it doesn't need any return.
41  *****************************************************************************/
42
43 void Input(ifstream &inFile,
44            const int AR_SIZE,
45            string name[],
46            int id[],
47            float balance[]);
48
49
50 /*****************************************************************************
51  * Function : SearchBalance
52  * ---------------------------------------------------------------------------
53  * This function searches for the largest or smaller balance in the balance
54  * array using a for loop and then returns an integer type variable as the
55  * index of the  larger balance in the array to an integer type variable in
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```
 * the main named "balanceIndex".
 ********************************************************************************/

int SearchBalance(float balanceAr[],
                  int option,
                  const int AR_SIZE);


/********************************************************************************
 * Function : SumOrAvg
 * ------------------------------------------------------------------------------
 * This function gets all the balances from the list using a for loop
 * and add them up together to get the sum and average of all the balances.
 * then returns a float type variable to a float variable in the main called
 * "sumOrAvg".
 ********************************************************************************/

float SumOrAvg(float balanceAr[],
               int option,
               const int AR_SIZE);


/********************************************************************************
 * Function : SearchName
 * ------------------------------------------------------------------------------
 * This function prompts the user that who is the user searching for and uses
 * while loop and an boolean expression to check the name array and if the name
 * was found, returns the index of the array to be used in the parallel arrays
 * and if the name was not found, lets the user know
 ********************************************************************************/

int SearchName(string nameAr[],
               const int AR_SIZE);


/********************************************************************************
 * Function : FileOutput
 * ------------------------------------------------------------------------------
 * This function will out put the results that were assigned to variables in
 * the main from the other functions to the output file. the function is a void
 * type function, so it doesn't need any return.
 ********************************************************************************/

void FileOutput(ostream &outFile,
                string   nameAr[],
                int      idAr[],
                float    balanceAr[],
                int      option,
                int      balanceIndex,
                float    sumOrAvg,
                int      nameIndex);

#endif /* MYHEADER_H_ */

```