

SearchBalance.cpp

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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 #include "MyHeader.h"
10
11 /*****
12  * Function : SearchBalance
13  * -----
14  * This function searches for the largest or smaller balance in the balance
15  * array using a for loop and then returns an integer type variable as the
16  * index of the larger balance in the array to an integer type variable in
17  * the main named "balanceIndex".
18  *****/
19
20 int SearchBalance(float balanceAr[],
21                  int option,
22                  const int AR_SIZE)
23 {
24     /*****
25     * VARIABLES *
26     *****/
27
28     int balanceIndex; // PROCESS - Adjusts to the index of the larger balance
29     int index;        // PROCESS - Used in the for loop for the initial, check
30                       // and change in the loop.
31
32     //Initializing this to 0, to be changed later.
33     balanceIndex = 0;
34
35     //If statement used if the user chooses the option 1.
36     if(option == 1)
37     {
38         //For loop to search the largest balance between the
39         //elements of the array, checking index by index.
40         for (index = 0; index < AR_SIZE; index++)
41         {
42             //If statement to change the integer as the the
43             //index for the larger balance if the balance of the
44             //next element is higher.
45             if (balanceAr[index] > balanceAr[balanceIndex])
46             {
47                 balanceIndex = index;
48             } //End of if statement.
49
50         } //End of the for loop.
51
52     } //End of the if statement.
53
54     //If statement used if the user chooses the option 2.
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```
56  else if(option == 2)
57  {
58      //For loop to search the smaller balance between the
59      //elements of the array, checking index by index.
60      for (index = 1; index <= AR_SIZE; index++)
61      {
62          //If statement to change the integer as the the
63          //index for the larger balance if the balance of the
64          //next element is higher.
65          if (balanceAr[index] < balanceAr[balanceIndex])
66          {
67              balanceIndex = index;
68          }//End of if statement.
69
70      }//End of for loop.
71
72      }//End of if statement.
73
74
75
76
77  //Returns the index integer to the main.
78  return balanceIndex;
79 }
80
81
82
```