

searchBalance.cpp

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1 /*****
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3  * STUDENT ID   : 1039438
4  * ASSIGNMENT 1 : Functions and Arrays
5  * CLASS       : CS1A
6  * SECTION     : MW 7:30PM
7  * DUE DATE    : 02/15/19
8  *****/
9
10 /*****
11  * This function will search a given array for the largest or smallest floating
12  * point value and return the index it is located at.
13  * -----
14  * INPUT:
15  *     token    - menu option chosen
16  *     ar3[]    - float array
17  *     AR_SIZE  - size of array
18  * OUTPUT:
19  *     i        - index of largest or smallest value
20  *****/
21 #include "header.h"
22
23 int searchBalance(menuoption token, float ar3[], const int AR_SIZE)
24 {
25
26     int index;
27     int i;
28     float target;
29
30     target = ar3[0];
31     i = 0;
32
33     if(token == LARGERBALANCE)
34     {
35         for(index=0; index < AR_SIZE - 1; index++)
36         {
37             if(ar3[index + 1] > target)
38             {
39                 target = ar3[index + 1];
40                 i = index + 1;
41             }
42         }
43     }
44     else
45     {
46         for(index=0; index < AR_SIZE - 1; index++)
47         {
48             if(ar3[index + 1] < target)
49             {
50                 target = ar3[index + 1];
51                 i = index + 1;
52             }
53         }
54     }
55     return(i);
56 }
57
```