

SearchName.cpp

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1 /*****
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4  * CLASS      : CS1B
5  * SECTION    : MW 7:30pm
6  * LAB #6     : Structs
7  * DUE DATE   : 1 October 2019
8  *****/
9 #include "Myheader.h"
10
11 /
12  *****/
13  * Function : SearchName
14  *
15  -----
16  * This function prompts the user that who is the user searching for
17  * and uses
18  * while loop and an boolean expression to check the name array and
19  * if the name
20  * was found, returns the index of the array to be used in the
21  * parallel arrays
22  * and if the name was not found, lets the user know
23  *
24  *****/
25
26 int SearchName(struct information personalData[], const int AR_SIZE)
27 {
28     /*****
29     * VARIABLES *
30     *****/
31
32     int index;           // PROCESS - used for the for loop
33     string searchName;   // IN & PROCESS - user input and used for
34     the search
35     bool searchStat;     // PROCESS - changes if the name was found
36
37     //initializing the boolean expression to true
38     searchStat = true;
39
40     //initializing the index to zero to be used in the while loop
41     index = 0;
```

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36
37 //Prompts the user for for who is he/she searching for.
38 cin.ignore(1000, '\n');
39 cout << "\nWho do you want to search for (enter done to exit) :
";
40 getline(cin,searchName);
41
42 if(searchName != "done")
43 {
44     //uses the while loop to check if the name was found and
45     //if the index has reached the array length.
46     while (searchStat && index < AR_SIZE)
47     {
48         //if statement to see if the name assigned to the index
of the
49         //array matches the searched name
50         if (searchName == personalData[index].name)
51         {
52             //changes when the name is found
53             searchStat = false;
54         }//End of if statement
55
56         //else statement for if the name was not match with the
array,
57         // element index, then increments the index.
58         else
59         {
60             index++;
61         }//end of else statement
62
63     }//end of while loop
64
65
66
67
68     //if statement to print out the not found name and lets the
user know
69     //that there is no matching name in the list with the
searched name.
70     if (searchStat == true)
71     {
72         cout << searchName << " was not found." << endl << endl;
73         index = 11;
74     }//end of if statement
75
```

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76      //else statement to let the user know that the name was
found
77      else if (searchStat == false)
78      {
79          cout << "Found." << endl << endl;
80      }//end of else statement
81  }
82
83  else if (searchName == "done")
84  {
85      index = 12;
86  }
87
88
89  //returns an integer type variable and assign it to an integer
variable
90  //in the main.
91  return index;
92 }
93
94
```