MyHeader.h

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2 * AUTHOR
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3 * STUDENT ID : 1103126 - 1112261
4 * LAB #10
          : Creating an Ordered List
5 * CLASS
           : CS 1B
6 * SECTION
           : MW - 7:30 pm
7 * DUE DATE
           : 11/05/2019
9 * PrintMenu
10 ********************************
11* This function will output the menu, gets the user's option and checks to see
     if the input is eligible or not.
14
15 #ifndef MYHEADER_H_
16 #define MYHEADER H
17
18 #include<iostream>
19 #include<iomanip>
20 #include<string>
21 #include<fstream>
22 #includelimits>
23 #include<sstream>
24 using namespace std;
26 const string NAME = "Creating an Ordered List";
                 = 'L';
27 const char
           TYPE
28 const int
           NUM
                 = 10;
29 const string CLASS = "CS1B";
30 const string SECTION = "MW: 7:30p - 9:50p";
31
32
33
34 enum MenuOption
35 {
36
    EXIT,
37
    CREATE,
38
    DISPLAY,
39
    ISEMPTY,
40
    SEARCH,
41
    REMOVE.
42
    CLEAR
43 }:
44
45 struct PersonNode
46 {
47
    string
             name;
48
    char gender;
49
    int
             age;
50
    PersonNode *next;
51
    PersonNode *prev;
52 };
53
55 * Function - PrintHeaderFile
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57 * This function will output the class heading to the screen.
58 *
59 * return type - nothing
              the function is void type
62 void PrintHeaderFile();
63
64 /*********************************
65 * Function - PrintMenu
67 \, * \, 	ext{This} function will output menu option to the screen and waits for the user to
68 * input an option to what to what to do. The options are as following:
69 *
70 * 1 − Create List
71 ★ 2 - Display List
72 * 3 - Is the list empty?
73 * 4 - Search by name
74 * 5 - Remove Node
75 * 6 - Clear List
76 * 0 - to Exit
77 *
78 * return type - Integer
80 int PrintMenu();
81
83 * Function - CreatList
84 * -----
85 * This function will get the data from the input file and puts the data into
86 * the contents of the nodes, then add the nodes to the empty lists passed by
87 * Reference to the function
* 88
89 * return type - nothing
              the function is void type
90 *
92 void CreatList(PersonNode *&head):
93
94 /**********************************
95 * Function - DisplayList
97 * This function will output the contents of the nodes of the linked list
98 * created in the CreatList function
99 *
100 * return type - nothing
101 *
              the function is void type
103 void DisplayList(PersonNode *head);
106 * Function - IsEmpty
107 * -----
108 * This function check if the list created or modified by the user is empty or
109 * no and then outputs if the list is empty or no
110 *
```

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111 * return type - nothing
               the function is void type
114 void IsEmpty(PersonNode *head);
116 /*******************************
117 * Function - SearchName
118 * -----
119 * This function will get a name from the user and search the name content of
120 * each node to see if there is a matching name in the nodes with the name
121 * searched by the user. if found, the function prints out every content of the
122 * node for the user, if not found, the function outputs that the name searched
123 * by the user was not found.
124 *
125 * return type - nothing
126 *
               the function is void type
128 void SearchName(PersonNode *head);
129
131 * Function - RemoveNode
132 * ----
133 * This function will ask the user which node the user wants to remove and it
134 * searches the nodes based on the name content of the nodes and if the name
135 * content of a node matches the name input by the user, the function removes
136 * the node from the list, if not, the function outputs that the name searched
137 * by the user has not found in the list.
138 *
139 * return type - nothing
140 *
               the function is void type
142 void RemoveNode(PersonNode *&head);
143
144 /*****************************
145 * Function - ClearList
146 ********************************
147 * This function Allows the user to delete all the nodes in the linked list and
148 * make an empty list out of the list of the names that we had
149 *
150 * return type - nothing
               the function is void type
153 void ClearList(PersonNode *&head):
154
155
156 #endif /* MYHEADER_H_ */
157
```