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1  /*
2  Filename: p3.h
3  Author(s): Zachary Rea and Parker Ross
4  Date: 5 February 2023
5  Description: The header file for p3
6  */
7  #ifndef __P3_H
8  #define __P3_H
9
10 #include <string>
11 //*****
12 class cStringList {
13     private:
14         std::string *a;
15         int listCapacity;
16         int listCount;
17         int first;
18         int last;
19         //Function for incrementing value
20         void incVal(int &value);
21         //Function for decrementing value
22         void decVal(int &value);
23     public:
24         //Constructor
25         cStringList(int capacity = 100);
26         //De-constructor
27         ~cStringList();
28         //Function for inserting at beginning of list
29         bool insert(std::string text);
30         //Function for adding to end of list
31         bool add(std::string text);
32         //Function for inserting at given index
33         bool insertAt(int index, std::string text);
34         //Function for deleting at given index
35         bool deleteAt(int index, std::string &text);
36         //Function for reading at given index
37         bool readAt(int index, std::string &text);
38         //Function for deleting the first element
39         bool deleteFirst(std::string &text);
40         //Function for deleting the last element
41         bool deleteLast(std::string &text);
42         //Function for emptying the list
43         void clear();
44         //Function for returning the size of the list
45         int count() const;
46         //Function for returning the first index of a given string
47         int getIndex(std::string text);
48         //Function for printing the contents of the list
49         void printIt() const;
50 };
51 #endif

```