

ClassHeader.h

```
1 /*****
2  * PROGRAMMER : Ali Eshghi
3  * STUDENT ID : 1112261
4  * CLASS      : CS1B
5  * SECTION    : MW 7:30pm
6  * Assign #3  : Searching linked list
7  * DUE DATE   : 6 November 2019
8  *****/
9 #ifndef CLASSHEADER_H_
10 #define CLASSHEADER_H_
11
12
13 #include<iostream>    // INPUT AND OUTPUT
14 #include<iomanip>     // FOR USING SETW'S
15 #include<string>      // FOR USING STRINGS
16 #include<fstream>     // FOR USING OUTPUT FILES
17 #include<limits>      // FOR USING LIMITS
18 #include<ios>         // FOR USING STREAM SIZE
19 #include<sstream>     // FOR USING OSTRINGSTREAM
20 #include"MyHeader.h"
21 using namespace std;
22
23
24 struct DVDNode
25 {
26     string    title;        //store Movie's title
27     string    leadActor;    //store leading Actor/Actress
28     string    supActor;     //store supporting Actor/Actress
29     string    genre;        //store Movie's genre
30     string    altGenre;     //store Movie's alternate genre
31     int       year;         //store Movie's year
32     int       rating;       //store Movie's rating
33     string    synopsis;     //store Movie's Synopsis
34     DVDNode   *next;        //linked list next pointer
35 };
36
37
38
39 class StackList
40 {
41 public:
42
43     //constructor
44     StackList();
45
46     //destructor
47     ~StackList();
48
49     /*****
50     **** MUTATORS ****
51     *****/
52
53     void Push(DVDNode newDVD); //create a DVDNode, add the
54                                // node to the stack, by
55                                // adding the node to front of the List
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56
57     DVDNode Pop();           //returns the node from the top of the list
58                               //removes the node from the list and deletes it
59
60     /***** ACCESSORS *****/
61     /***** ACCESSORS *****/
62
63
64     bool IsEmpty() const;    //checks if the list is empty
65
66     DVDNode Peek() const;    //returns the node at the top of the list
67
68     int Size() const;        //returns the number of the nodes in the list
69
70 protected:
71     DVDNode *head;           //head pointer for the list
72     int      stackCount;      //total number of nodes in the list
73
74 };
75
76
77
78 class MovieList: public StackList
79 {
80 public:
81
82     //constructor
83     MovieList();
84
85     //destructor
86     ~MovieList();
87
88     /***** MUTATORS *****/
89     /***** MUTATORS *****/
90
91
92     void CreatList(string inFileName);
93
94     /***** ACCESSORS *****/
95     /***** ACCESSORS *****/
96
97
98     void OutputList(string outFileName) const;
99
100 private:
101
102     string WordWrap(string plot) const;
103
104     void PrintClassHeader(ostream &output,           //IN & OUT - utput file
105                           string labName,           //OUT      - lab name
106                           int labNumber,            //OUT      - lab number
107                           char labType) const;      //OUT      - lab type
108
109
110

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111 };  
112  
113  
114  
115  
116  
117 #endif /* CLASSHEADER_H_ */  
118
```