

StackList.h

```
1 /*****
2 * AUTHOR      : Amirarsalan Valipour
3 * STUDENT ID   : 1103126
4 * Assignment #5 : DVD Movie ListIntro to OOP
5 * CLASS        : CS 1B
6 * SECTION      : MW - 7:30 pm - 9:50 pm
7 * DUE DATE     : 12/16/2019
8 *****/
9
10 #ifndef STACKLIST_H_
11 #define STACKLIST_H_
12
13 #include "MyHeader.h"
14
15 class StackList // Base Class -Using linked list implementation
16 {
17
18     public:
19
20         /*****
21          *   CONSTRUCTOR / DESTRUCTOR   *
22          *****/
23
24         StackList();
25
26         ~StackList();
27
28
29         /*****
30          *   MUTATORS   *
31          *****/
32
33         void Push(DVDNode newDVD); //create a DVDNode, add a
34                                     // DVDNode in the stack, by
35                                     // adding to the front of the
36                                     // linked List
37
38         DVDNode Pop(); // return the DVDNode in the top
39                         // of
40                         // the stack, remove the DVDNode
41                         // from the stack, delete the
42                         // DVDNode
43
44         /*****
45          *   ACCESSORS   *
46          *****/
47
48 }
```

StackList.h

```
44         *****/
45
46         bool IsEmpty() const;           // check if stack is empty
47
48
49         DVDNode Peek() const;           // return the DVDNode at the
top                                         // of the stack
50
51
52         int Size() const;               // return the number of people
53                                         // in the stack
54
55     protected:
56
57         DVDNode *head;                  // head pointer for stack
58
59         int stackCount;                 // total number of persons in the stack
60 };
61
62 #endif /* STACKLIST_H_ */
63
64
65 /*****
66  *   CONSTRUCTOR & DESTRUCTOR   *
67  *****/
68
69 /*****
70  * StackList ();
71  * Constructor; Initialize class attributes
72  * Parameters: none
73  * Return: none
74  *****/
75
76 /*****
77  * ~StackList ();
78  * Destructor; does not perform any specific function
79  * Parameters: none
80  * Return:     none
81  *****/
82
83
84 /*****
85  *   MUTATORS   *
86  *****/
87
```

StackList.h

```
88 /
*****
89 * void Push (DVDNode newDVD);
90 *
91 * Mutator; This method will add a DVD node to the list to the
  front
92 *
-----
93 * Parameter: newDVD (DVDNode) //IN - node to be added to list
94 *
-----
95 * Return: none
96
*****
/
97
98 /
*****
99 * DVDNode Pop ();
100 *
101 * Mutator; This method will remove a DVD node from the front of
  the
102 * list and return the DVDNode being removed
103 *
-----
104 * Parameter: none
105 *
-----
106 * Return: dvdPtr (DVDNode)
107
*****
*/
108
109
110 /*****
111 * ACCESSORS *
112 *****/
113
114 /*****
115 * bool IsEmpty () const;
116 *
117 * Accessor; This method will return the boolean value whether
118 * the list is empty or not empty
119 * -----
120 * Parameters: none
```

StackList.h

```
121 * -----
122 * Return: emptyCheck (bool)
123 *****/
124
125 /*****
126 * DVDNode Peek () const;
127 *
128 * Accessor; This method will return the DVD node of the first
129 * element on the list
130 * -----
131 * Parameters: none
132 * -----
133 * Return: dvdPtr (DVDNode)
134 *****/
135
136 /*****
137 * int Size () const;
138 *
139 * Accessor; This method will return the size of the list
140 * -----
141 * Parameters: none
142 * -----
143 * Return: stackCount (int)
144 *****/
145
```