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1 /*****
2  * AUTHOR          : Nick Reardon
3  * Assignment #5   : Binary Trees
4  * CLASS           : CS1D
5  * SECTION         : MW - 2:30p
6  * DUE DATE        : 02 / 19 / 20
7  *****/
8 #ifndef _PRINTHEADER_H_
9 #define _PRINTHEADER_H_
10
11 #include <iostream>
12 #include <iomanip>
13 #include <ostream>
14 #include <string>
15 #include <fstream>
16
17 /*****
18  * PrintHeader
19  * -----
20  * This function will output a class header through the use of ostream.
21  * It also will output the program description
22  * -----
23  * Call
24  * -----
25  * The function call requires 1 parameters. The following example uses an
26  * output file in the ostream parameter. Ex:
27  *
28  *     PrintHeader (oFile);
29  *
30  * -----
31  * Output
32  * -----
33  * The function will output as follows. Ex:
34  *
35  *     *****/
36  *     * PROGRAMMED BY : Parsa Khazravi and Nick Reardon
37  *     * CLASS         : CS1B
38  *     * SECTION       : MW: 7:30pm
39  *     * Lab #3        : Functions - GCD
40  *     *****/
41  *
42  * -----
43  * CONSTANTS
44  * -----
45  * OUTPUT - USED FOR CLASS HEADING
46  * -----
47  * PROGRAMMER       : Name(s) of programmer(s) - Nick Reardon
48  * SECTION          : Class times - MW - 7:30p
49  * CLASS            : Class label - CS1B
50  * PROGRAM_NUM      : # of the program
51  * PROGRAM_NAME     : Title of the program
52  * PROGRAM_TYPE     : Type of program - Lab, Assignment, etc.
53  *
54  * -----
55  * MAX_OUTPUT       : Max movies to be output at once
56  *****/
57 const std::string PROGRAMMER = "Nick Reardon";
58 const std::string SECTION = "MW - 2:30p";

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59 const std::string CLASS = "CS1D";
60 const int PROGRAM_NUM = 5;
61 const std::string PROGRAM_NAME = "Binary Trees";
62 const std::string PROGRAM_TYPE = "Assignment";
63
64
65 void PrintHeader(std::ostream &output, std::string inputText)
66 {
67     std::string typeNum = PROGRAM_TYPE + " #" + std::to_string(PROGRAM_NUM);
68
69     output << std::left
70         << std::string(76, '*')
71         << std::endl
72         << "* PROGRAMMED BY : " << PROGRAMMER << std::endl
73         << "* " << std::setw(14) << "CLASS" << ": " << CLASS << std::endl
74         << "* " << std::setw(14) << "SECTION" << ": " << SECTION << std::endl
75         << "* " << std::setw(14) << typeNum << ": " << PROGRAM_NAME << std::endl
76         << std::string(76, '*')
77         << std::endl << std::endl
78         << std::string(((76 - typeNum.length() - PROGRAM_NAME.length() ) / 2), ' ')
79         << typeNum + " - " + PROGRAM_NAME
80         << std::endl << std::endl
81         << std::ifstream(inputText).rdbuf()
82         << std::endl
83         << std::string(76, '*')
84         << std::endl << std::endl;
85
86 }
87
88 #endif //_PRINTHEADER_H_

```