

```
1  /*****
2  * AUTHOR          : Nick Reardon
3  * Assignment #3   : Stacks, Queues, Dequeus
4  * CLASS           : CS1D
5  * SECTION         : MW - 2:30p
6  * DUE DATE        : 02 / 03 / 20
7  *****/
8  #ifndef _MAIN_H_
9  #define _MAIN_H_
10
11 //Standard includes
12 #include <iostream>
13 #include <iomanip>
14 #include <string>
15 #include "PrintHeader.h"
16
17 //Program Specific
18 #include<stack>
19 #include "stackType.h"
20 #include "linkedQueue.h"
21 #include "dequeType.h"
22
23
24
25 //Prints the contents of an STL stack
26 //Makes a copy and outputs top, then pops in a loop until empty
27 template <class Type>
28 void printStackSTL(std::stack<Type> stack)
29 {
30     std::stack<Type> copy = stack;
31
32     cout << "Printing STL stack:" << endl;
33     while (copy.size() > 0)
34     {
35         cout << copy.top() << endl;
36         copy.pop();
37     }
38     cout << endl;
39 }
40
41 //Checks a given strings for parenthesis
42 bool areParanthesisBalanced(const string& expression);
43
44 #endif // _HEADER_H_
45
```