

```
1  /*****
2  * AUTHOR          : Nick Reardon
3  * Assignment #1   : Vectors
4  * CLASS           : CS1D
5  * SECTION         : MW - 2:30p
6  * DUE DATE        : 01 / 22 / 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 <fstream>
19  #include <vector>
20
21
22  // Setup function for PalindromeRecursion
23  // returns true if the given string IS a palindrome, else it returns false
24  // No change to given string
25  bool CheckPalindrome(const std::string& input);
26
27
28  // Recursively checks if a given string is a palindrome
29  // Uses setup function CheckPalindrome
30  // returns true if the given string IS a palindrome, else it returns false
31  // No change to given string
32  // Case insensitive, ignores whitespace and any non alpha numeric character
33  bool PalindromeRecursion(const std::string& input, int front, int back);
34
35
36
37  // Outputs a given string along with given index locations
38  // Used to indicate current character comparisons for palindromes
39  // Indicates two given indices unless both indices match
40  // No change to given string
41  void PrintStringPositions(const std::string& input, int front, int back);
42
43  #endif // _HEADER_H_
44
```