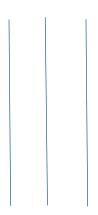
CSC 710 – STRUCTURE AND DESIGN PROGRAMMING LANGUAGE



ASSIGNMENT 1

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- 1. There are altogether three solutions to check for balancing symbols in the pascal and C++ languages.
- 2. After you run each program, you will have options to choose Balancing symbol in pascal language for which you need to enter 1 and for other one (i.e. C++) enter 2 in the terminal.

Test cases for PYTHON:

Enter a number: 1 (pascal test cases:)

Enter a number 2 (C++ test cases):

Test cases for C++:

• To run BracketBalancer.cpp, "g++ -std=c++11 BracketBalancer.cpp -o Prog.out && ./Prog.out"

Enter a number 1: (Pascal test cases)

```
yuvrajpant@Yuvrajs-MacBook-Pro Question_2 % g++ -std=c++11 BracketBalancer.cpp -o Prog.out &&
 /Prog.out
 ****
             ** ENTER number {1} TO CHECK FOR BALANCING SYMBOLS IN THE PASCAL LANGUAGE ******
 ****
 Enter a Number: 1
Enter the balancing symbol for PASCAL Language: ()[]beginend(x=y)(c+y)
The expression entered by user is: ()[]beginend(x=y)(c+y)
Cleaned tokens: ( ) [ ] begin end ( ) ( )
 Balanced
yuvrajpant@Yuvrajs-MacBook-Pro Question_2 % g++ -std=c++11 BracketBalancer.cpp -o Prog.out && .
/Prog.out
************* ENTER number {1} TO CHECK FOR BALANCING SYMBOLS IN THE PASCAL LANGUAGE ********
********** ENTER number {2} TO CHECK FOR BALANCING SYMBOLS IN THE C++ LANGUAGE ***********
Enter the balancing symbol for PASCAL Language: (x-y_0)guffbegin\{\}*/
The expression entered by user is: (x-y_0)guffbegin{}*/Cleaned tokens: ( ) begin { }
Unbalanced
yuvrajpant@Yuvrajs-MacBook-Pro Question_2 % g++ -std=c++11 BracketBala<u>ncer.cpp -o Prog.out &&</u>
/Prog.out
***************** ENTER number {1} TO CHECK FOR BALANCING SYMBOLS IN THE PASCAL LANGUAGE ********
****
************** ENTER number {2} TO CHECK FOR BALANCING SYMBOLS IN THE C++ LANGUAGE **********
Enter a Number: 1
Enter the balancing symbol for PASCAL Language: (x=y){}[begin]end
The expression entered by user is: (x=y){}[begin]end Cleaned tokens: ( ) { } [ begin ] end Unbalanced
```

Enter a number 2: (C++ test cases)

Test Cases for JAVA:

Enter number 1 for pascal test cases:

```
******* ENTER number {1} TO CHECK FOR BALANCING SYMBOLS IN THE PASCAL LANGUAGE
******
******** ENTER number {2} TO CHECK FOR BALANCING SYMBOLS IN THE C++ LANGUAGE **
Enter a number: 1
Enter the balancing symbol for PASCAL Language: begin(x=y)(h-y)end
The expression entered by the user is: begin(x=y)(h-y)end
[begin, (, ), (, ), end]
Balanced
******** ENTER number {2} TO CHECK FOR BALANCING SYMBOLS IN THE C++ LANGUAGE **
*****
Enter a number: 1
Enter the balancing symbol for PASCAL Language: beginend(x=y)[]}}}{{{
The expression entered by the user is: beginend(x=y)[]}}}{{{
[begin, end, (, ), [, ], }, }, }, {, {, {]
Unbalanced
************* ENTER number {2} TO CHECK FOR BALANCING SYMBOLS IN THE C++ LANGUAGE **
*****
Enter a number: 1
Enter the balancing symbol for PASCAL Language: beginend()_[]{}
The expression entered by the user is: beginend()_[]{}
[begin, end, (, ), [, ], {, }]
Balanced
```

Enter number 2 for C++ test cases: