

MCS 253P Quiz 3

Name: _____ ID: _____

1) (100 pts) Write a function ***checkParens*** that takes a string as a parameter, looks for parenthesis and bracket open and close groups (ie. “()” and “[]”), and returns a vector called ***neededParens*** of four integers, where index [0] is the number of open parenthesis “(”, [1] is the number of closed parenthesis “)”, [2] is the number of open brackets “[”, and [3] is the number of closed brackets “]” needed to make the open and close groups in the string to match.

Example: **input** = “(hello [my [(name is (Ray)]])” **output** = [0, 2, 1, 0]

Please write your code in two columns to give yourself maximum vertical space. **Please do not write #includes or imports.** please write **ONE line** of comment above each function (-10 points). Reduce the size of your font to prevent breaking code in two lines (-20 points). Don't use more than 3 levels of nested control flow in your code (-20 points). don't use while loop when the only termination criteria is a known number of iterations (-10 points). Don't write long functions (-30 points).

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