Check Brackets

# **Summary:** Given an input string of brackets ‘(‘ and ‘)’, square brackets ‘\*‘ and ‘+’, curly brackets ‘,‘ and ‘-’, and multiple line comment token ‘/\*’ and ‘\*/’, the problem is to check if this string is valid or not using **C++ STL Stacks**. A string is considered **valid iff**: • For each opened bracket, there should be a closing bracket of the same type. • Each closing bracket should close the lastly opened bracket. • Multiple line comment tokens consist of two characters, and any text between them should be ignored. However, they are treated the same way as brackets regarding the rules described above.

# **Examples:** • **([{}])(){}[]{[]}** – valid. • **({)}** – invalid. • **({/\*)}]]]]]]}\*/})** – valid. • **({/\*[][[]]]]]})** – invalid, the comment is not closed. • **[{/\*\*\*\*\*\*\*/}]** – valid.

# The project is built using **C++, Visual Studio**.