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/* CPSC 331 Fall 2013 with Professor Wayne Eberly
 * Pseudo Code for Assignment 2, Question 2
 *
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 *
 */

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function isNested(input: String) : Boolean
{
1.    Declare S to be a new ListStack.
    Declare symbols to be an array of characters whose length is the
    length of input and whose contents are initialized to contain
    the character sequence represented by input

    Declare i to be an integer with value equal to 0
2.    while(i < symbols.length)
3.        if (symbols[i] is '(' OR symbols[i] is '['):
4.            Push symbols[i] onto stack;
5.        else if (symbols[i] is ')' OR symbols[i] is ']'):
            {
6.                if (Stack is Empty)
7.                    return false
8.                else if (Top of stack is '(' AND symbols[i] is ')')
                    OR (Top of stack is "[" AND symbols[i] is ']')
9.                    return false
10.               else if (Top of stack is '(' AND symbols[i] is ')')
                    OR (Top of stack is '[' AND symbols[i] is ']')
11.                   Pop element off top of Stack
            }
        end conditionals
12.    i:= i + 1
    end while
13.    if (Stack is not Empty)
14.        return false
    end conditional
15.    return true
}
end function

```