**Algorithm checkDelimiterBalance (expression)**

// Returns true if the parentheses, brackets, and braces in an expression are paired correctly.

isBalanced = true

while ((isBalanced == true) and not at end of expression)

{

nextCharacter = next character in expression

switch (nextCharacter)

{

case '(':

case '[':

case '{': Push nextCharacter onto stack

break

case ')':

case ']':

case '}': if (stack is empty)

isBalanced = false

else

{

openDelimiter = top entry of stack

Pop stack

isBalanced = true or false according to whether

openDelimiter and nextCharacter are a pair

of delimiters

}

break

}

}

if (stack is not empty)

isBalanced = false

return isBalanced

Algorithm isPairOfDelimiters (char open, char close)

return (open == '(' && close == ')') ||

(open == '[' && close == ']') ||

(open == '{' && close == '}');