Import java.util.Stack;

Public class ValidParentheses {

Public static boolean isValid(String s) {

Stack<Character> stack = new Stack<>();

For (char c : s.toCharArray()) {

If (c == ‘(‘ || c == ‘[‘ || c == ‘{‘) {

Stack.push©;

} else {

If (stack.isEmpty()) {

Return false;

}

Char top = stack.pop();

If ((c == ‘)’ && top != ‘(‘) || (c == ‘]’ && top != ‘[‘) || (c == ‘}’ && top != ‘{‘)) {

Return false;

}

}

}

Return stack.isEmpty();

}

Public static void main(String[] args) {

String input = “({})”;

Boolean result = isValid(input);

System.out.println(“Is the string valid? “ + result);

}

}