import java.util.\*;

import java.io.\*;

class BalancingBrackets{

public static boolean checkBalancing(String expression){

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

for(int i=0;i<expression.length();i++){

char ch = expression.charAt(i);

if(ch=='(' || ch=='[' || ch=='{'){

stack.push(ch);

continue;

}

if(stack.isEmpty()){

return false;

}

char x;

switch(ch){

case ')' : x = stack.pop();

if(x==']' || x=='}'){

return false;

}

break;

case ']' : x = stack.pop();

if(x=='(' || x=='{'){

return false;

}

break;

case '}' : x = stack.pop();

if(x=='(' || x=='['){

return false;

}

break;

}

}

return (stack.isEmpty());

}

public static void main(String args[]) throws IOException{

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

System.out.print("Enter the expression : ");

String expression = br.readLine().trim();

if(checkBalancing(expression)){

System.out.println("The entered String has Balanced Brackets");

}

else{

System.out.println("The entered String do not contain Balanced Brackets");

}

}

}