import java.util.\*;

class stack

{

int size;

char arr[];

int top;

stack (int s)

{

size = s;

arr = new char[s];

top = -1;

}

boolean isfull ()

{

return top == size - 1;

}

boolean isempty ()

{

return top == -1;

}

void push (char d)

{

if (isfull ())

{

System.out.println ("Stack is overflow");

}

else

{

top++;

arr[top] = d;

}

return;

}

char pop ()

{

if (isempty ())

{

System.out.println ("Stack is underflow");

return '#';

}

else

{

char d = arr[top];

top--;

return d;

}

}

char peek ()

{

if (isempty ())

{

System.out.println ("Stack is underflow");

return '#';

}

else

{

return arr[top];

}

}

void display ()

{

if (isempty ())

{

System.out.println ("Stack is underflow");

}

else

{

for (int i = top; i >= 0; i--)

System.out.print (arr[i] + " ");

System.out.println ("\n");

}

return;

}

}

public class Main

{

public static void main (String args[])

{

Scanner s=new Scanner(System.in);

String str=new String();

str=s.next();

int f=0;

stack s1=new stack(str.length());

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

{

char c=str.charAt(i);

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

s1.push(c);

else if(c==')' || c=='}' || c==']')

{

char p=s1.peek();

if(c==')' && p!='(' || c=='}' && p!='{' || c==']'&&p!='[')

{

//System.out.println("Invalid");

f=1;

break;

}

else

{

s1.pop();

}} }

if(!s1.isempty())

{

System.out.print("Invalid");

}

if(f==0 && s1.isempty())

System.out.println("Valid");

}

}