public class Solution {

public boolean isValid(String s) {

// Start typing your Java solution below

// DO NOT write main() function

if(s==null||s.length()==0) return true;

Stack stack=new Stack();

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

if(s.charAt(i)=='('||s.charAt(i)=='{'||s.charAt(i)=='[') stack.push(s.charAt(i));

else if((s.charAt(i)==')'||s.charAt(i)=='}'||s.charAt(i)==']')&&!stack.empty()){

char cur=stack.peek().toString().charAt(0);

if((cur=='('&&s.charAt(i)==')')||(cur=='{'&&s.charAt(i)=='}')||(cur=='['&&s.charAt(i)==']')) stack.pop();

else return false;

}else return false;

}

return stack.empty();

}

}