**Valid Parentheses**

**Link:-** [**https://leetcode.com/problems/valid-parentheses/description/**](https://leetcode.com/problems/valid-parentheses/description/)

**Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.**

An input string is valid if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.
3. Every close bracket has a corresponding open bracket of the same type.

**Example 1:**

**Input:** s = "()"  
Output: true

**Solution:-**

**class Solution {**  
public boolean isValid(String s) {  
 int i=0;  
 Stack<Character> st=new Stack<>();  
 while(i<s.length()){  
 if(s.charAt(i)=='('||s.charAt(i)=='{'||s.charAt(i)=='['){  
 st.push(s.charAt(i));  
 }  
 else{  
 if(st.isEmpty())  
 return false;  
 else{  
 if((s.charAt(i)==')' && st.peek()=='(')||(s.charAt(i)=='}' && st.peek()=='{')||(s.charAt(i)==']' && st.peek()=='['))  
 st.pop();  
 else  
 return false;  
   
 }  
 }  
 i+=1;  
 }  
 return st.isEmpty();  
 }  
}