**20. Valid Parentheses**

Easy

20.5K

1.3K

Companies

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.

class Solution {

public boolean isValid(String s) {

Stack<Character> 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(stack.empty())

{

return false;

}

else{

switch(s.charAt(i))

{

case ')':

if(stack.peek()=='(')

stack.pop();

else

return false;

break;

case ']':

if(stack.peek()=='[')

stack.pop();

else

return false;

break;

case '}':

if(stack.peek()=='{')

stack.pop();

else

return false;

break;

}

}

}

}

if(stack.empty())

return true;

else

return false;

}

}