## 20. Valid Parentheses

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Total Accepted: 106254 Total Submissions: 361425 Difficulty: Easy
```

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

The brackets must close in the correct order, "()" and "()[]{}" are all valid but "(]" and "([)]" are not.

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```
//C++
//author:zzw
class Solution {
public:
   bool isValid(string s) {
       if(s.empty()) return false;
       int len = s.length();
       if(len & 0x01) return false;
       stack<char> str_stack;
       for(int i=0;i<len;i++)</pre>
       {
           if(!str stack.empty())
           {
               if((str_stack.top()=='{'
&& s[i]=='}')||(str_stack.top()=='[' && s[i]==']')
               ||(str_stack.top()=='(' && s[i]==')')){
                   str stack.pop();
               }else{
                   str_stack.push(s[i]);
           }else
           {
               str stack.push(s[i]);
           }
       }
       return str_stack.empty();
   }
};
```