20. Valid Parentheses (Easy)

You are given a string s consisting of the following characters: '(', ')', '(', ')', '(', ')' and '1'.

The input string s is valid if and only if:

Every open bracket is closed by the same type of close bracket. Open brackets are closed in the correct order. Every close bracket has a corresponding open bracket of the same type.

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Return true if s is a valid string, and false otherwise.

Example 1:

```
Input: s = "[]"

Output: true
```

Example 2:

```
Input: s = "([{}])"

Output: true
```

Example 3:

```
Input: s = "[(])"

Output: false
```

Explanation: The brackets are not closed in the correct order.

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Constraints:

• 1 <= s.length <= 1000

```
class Solution {
public:
  bool isValid(string s) {
     stack<char> stack;
     pair<char,char> a= {'(',')'},b= {'[',']'},c= {'{','}'};
     char tmp;
     for(char cc:s){
        switch (cc){
          case ')':
          if(stack.empty() || stack.top() != a.first) return false;
          stack.pop();
          break;
          case ']':
          if(stack.empty() || stack.top() != b.first) return false;
          stack.pop();
          break;
          case '}':
          if(stack.empty() || stack.top() != c.first) return false;
          stack.pop();
          break;
          default: stack.push(cc);
       }
     }
     return stack.empty();
};
```

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