

Valid Parenthese

```
1 class Solution(object):
2     def isValid(self, input):
3         """
4         input: string input
5         return: boolean
6         """
7         # write your solution here
8         match = {'(': ')', '[': ']', '{': '}'}
9         s = []
10        for p in input:
11            if p in match:
12                s.append(p)
13            elif not s or match[s[-1]] != p:
14                return False
15            else:
16                s.pop()
17        return not s
```