

```

1  /*Author: Bochen (mddboc@foxmail.com)
2  Last Modified: Tue Apr 10 22:28:44 CST 2018*/
3
4  /*Given a string containing just the characters '(', ')', '{', '}', '[' and ']',
determine if the input string is valid.
5
6  .....The brackets must close in the correct order, "()" and "()[]{}" are all
valid but "()" and "([])" are not.*/
7
8  import java.util.*;
9  import java.lang.Math;
10 import java.lang.System;
11 import java.lang.Integer;
12
13
14 public class Main {
15
16     ....public static void main(String[] args) {
17     .....int[] nums = {5, 5, 3, 5, 1, -5, 1, -2};
18
19     .....Solution solution = new Solution();
20     .....List<List<Integer>> receive = solution.fourSum(nums, 4);
21
22
23     .....System.out.println("haha");
24     ....}
25
26 }
27
28
29 class ListNode {
30     ....int val;
31     ....ListNode next;
32
33     ....ListNode(int x) {
34     .....val = x;
35     ....}
36 }
37
38 class Solution {
39
40     ....HashMap<Character, Character> map = new HashMap<Character, Character>();
41
42     ....public boolean isValid(String s) {
43
44     .....this.buildHashMap();
45
46     .....Stack<Character> count = new Stack<>();
47     .....int sLength = s.length();
48     .....char currentChar;
49
50     .....for (int i = 0; i < sLength; i++) {
51
52     .....currentChar = s.charAt(i);
53     .....if (currentChar == '(' || currentChar == '{' || currentChar == '[') {
54     .....count.push(currentChar);
55     .....} else {
56     .....if (count.empty()) {
57     .....return false;
58     .....} else {
59     .....if (count.peek() == map.get(currentChar)) {
60     .....count.pop();
61     .....} else {
62     .....return false;
63     .....}
64     .....}
65     .....}
66     .....}
67
68     .....if (!count.empty()) {
69     .....return false;
70     .....} else {
71     .....return true;

```

```
72     .....}
73
74     ....}
75
76     ....private void buildHashMap() {
77         .....map.put(')', '(');
78         .....map.put(']', '[');
79         .....map.put('}', '{');
80     ....}
81 }
```