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Parenthesis Checker

Difficulty: **Easy** Accuracy: **28.56%** Submissions: **594K+** Points: **2**

Given an expression string **x**. Examine whether the pairs and the orders of {},(),[,] are correct in exp.

For example, the function should return 'true' for exp = {}{}{}{}{}{} and 'false' for exp = {}.

Note: The **driver code** prints "balanced" if function return true, otherwise it prints "not balanced".

Examples :

Input: {}{}{}{}**Output:** true**Explanation:** { ([]) }. Same colored brackets can form balanced pairs, with 0 number of unbalanced bracket.**Input:** ()**Output:** true**Explanation:** (). Same bracket can form balanced pairs, and here only 1 type of bracket is present and in balanced way.**Input:** {}[]**Output:** false**Explanation:** {}. Here square bracket is balanced but the small bracket is not balanced and Hence, the output will be unbalanced.**Expected Time Complexity:** $O(|x|)$ **Expected Auxiliary Space:** $O(|x|)$

Constraints:

 $1 \leq |x| \leq 10^5$ [Try more examples](#)

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Java (1.8)

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```
1- //{ Driver Code Starts
2- import java.util.*;
3- import java.io.*;
4- import java.lang.*;
5-
6- class Driverclass
7- {
8-     public static void main(String args[])
9-     {
10-         Scanner sc = new Scanner(System.in);
11-
12-         //Reading total number of testcases
13-         int t= sc.nextInt();
14-
15-         while(t-- >0)
16-         {
17-             //reading the string
18-             String st = sc.next();
19-
20-             //calling ispar method of Paranthesis class
21-             //and printing "balanced" if it returns true
22-             //else printing "not balanced"
23-             if(new Solution().ispar(st) == true)
24-                 System.out.println("balanced");
25-             else
26-                 System.out.println("not balanced");
27-         }
28-     }
29- }
30-
31- // } Driver Code Ends
```

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