

```
. import java.util.Stack;
. public class BracketBalance {
.     public static boolean checkBalance(String brackets){
.         Stack<Character> bracket = new Stack<>();
.         if(brackets.length() % 2 != 0){
.             return false;
.         }
.         else{
.             for (int i = 0; i < brackets.length(); i++) {
.                 char ch = brackets.charAt(i);
.                 if(ch == '{' || ch == '[' || ch == '(' || ch == '<'){
.                     bracket.push(ch);
.                 }
.                 else{
.                     if(!bracket.isEmpty()){
.                         char pair = bracket.pop();
.                         if((pair != '{' && ch == '}') || (pair != '[' && ch == ']') || (pair != '(' && ch
. == ')') || (pair != '<' && ch == '>')) {
.                             return false;
.                         }
.                     }
.                     else{
.                         return false;
.                     }
.                 }
.             }
.             if(!bracket.isEmpty()){
.                 return false;
.             }
.         }
.         return true;
.     }
.     public static void main(String[] args) {
.         System.out.println(checkBalance("{}"));
.         System.out.println(checkBalance("{}{}"));
.         System.out.println(checkBalance("{}"));
.         System.out.println(checkBalance("{}[]"));
.         System.out.println(checkBalance("{}()"));
.     }
. }
```