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Description

Given a string containing three types of parenthesis : (), [], {}, write a program to check whether the string contains a valid sequence of parentheses.

Input

Input Format

Input contains one line which is the string with parentheses whose validity you have to check

Constraints

length of string <= 1000

Output

Output Format

Print "balanced" (without quotes) if it has a sequence of valid parentheses, otherwise print "unbalanced" (without quotes)
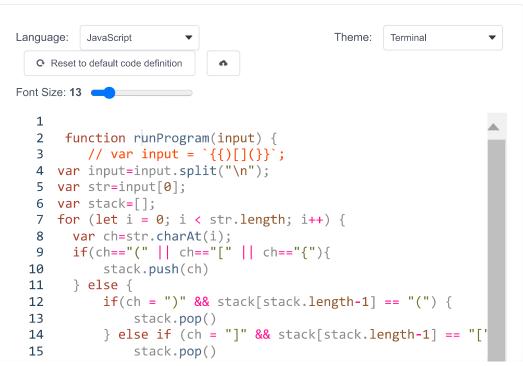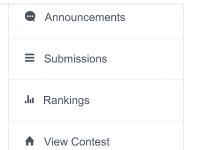
Sample Input 1 📋

```
((((((((((()))))))))))
```

Sample Output 1

```
balanced
```

Sample Input 2 📋

```
[one[two[three[four[five[six[se
ven[eight[nine[ten]]]]]]]]]]
```

Sample Output 2

```
balanced
```

Language: JavaScript ▼   Theme: Terminal ▼

🔄 Reset to default code definition   ☁️

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```javascript
1
2    function runProgram(input) {
3        // var input = `{{)[](}}`;
4    var input=input.split("\n");
5    var str=input[0];
6    var stack=[];
7    for (let i = 0; i < str.length; i++) {
8      var ch=str.charAt(i);
9      if(ch=="(" || ch=="[" || ch=="{"){
10          stack.push(ch)
11      } else {
12          if(ch = ")" && stack[stack.length-1] == "(") {
13              stack.pop()
14          } else if (ch = "]" && stack[stack.length-1] == "["
15              stack.pop()
```

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```
19              console.log("unbalanced")
20              return;
21          }
22      }
23  }
24  if(stack.length== 0){
25      console.log("balanced")
26  }
27  else{
28      console.log("unbalanced")
29  }
30  }
31
32  if (process.env.USER === "") {
33    runProgram(``);
34  } else {
35    process.stdin.resume();
36    process.stdin.setEncoding("ascii");
37    let read = "";
38    process.stdin.on("data", function (input) {
39      read += input;
40    });
41    process.stdin.on("end", function () {
42      read = read.replace(/\n$/, "");
43      read = read.replace(/\n$/, "");
44      runProgram(read);
45    });
46    process.on("SIGINT", function () {
47      read = read.replace(/\n$/, "");
48      runProgram(read);
49      process.exit(0);
50    });
```

☐ Test against custom input   [Run Code]   [✏️ Submit]

```
(((((((((())))))))))
```

Compilation Succesfull

```
balanced
```

⚠️ Contest has ended