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Test Case #20

swatantragoswam1 >

Status: Accepted



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## **Balanced Brackets**



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Test Case #19

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<b>~</b>	Test Case #0	<b>~</b>	Test Case #1	<b>~</b>	Test Case #2
<b>~</b>	Test Case #3	<b>~</b>	Test Case #4	<b>~</b>	Test Case #5
<b>~</b>	Test Case #6	<b>~</b>	Test Case #7	<b>~</b>	Test Case #8
<b>~</b>	Test Case #9	<b>~</b>	Test Case #10	<b>~</b>	Test Case #11
<b>~</b>	Test Case #12	<b>~</b>	Test Case #13	<b>~</b>	Test Case #14
<b>~</b>	Test Case #15	<b>~</b>	Test Case #16	<b>~</b>	Test Case #17

**Submitted Code** 

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Test Case #18

```
Language: C++
                                                                                                  P Open in editor
1 #include<string.h>
2 #include<stdio.h>
3 // #include<iostream.h>
4 #include < bits / stdc++.h>
5 using namespace std;
6
7 bool is_balanced(string expression) {
       vector<char> s; // Use a stack to keep track of opening brackets
8
       for(int i = 0; i < expression.size(); i++) {</pre>
9
           if(expression[i] == '{' || expression[i] == '[' || expression[i] == '(') {
10
               s.push_back(expression[i]);
11
           } else {
12
13
               // Pop the top of the stack and make sure the brackets match
               if(s.size() == 0) {
14
                    return false;
15
16
               char c = s.back();
17
               s.pop_back();
18
               if(c == '{' && expression[i] != '}') {
19
                    return false;
20
21
               if(c == '(' && expression[i] != ')') {
22
23
                    return false:
24
               if(c == '[' && expression[i] != ']') {
25
26
                    return false;
27
28
29
       if(s.size() == 0) {
30
31
           return true;
                                                                                                             Privacy - Terms
```

```
} else {
32
33
            return false;
34
35 }
36
37 int main(){
38
       int t;
39
       cin >> t;
       for(int a0 = 0; a0 < t; a0++){
40
           string expression;
41
           cin >> expression;
           bool answer = is_balanced(expression);
43
            if(answer)
44
                cout << "YES\n";</pre>
45
            else cout << "NO\n";</pre>
46
47
       return 0;
48
49 }
```

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