I'm Really Confused

Program Name: `Confused.java`   **Input File: `confused.dat`**

Some programming languages use a lot of parentheses. One job of the compiler is to check that parentheses and brackets are balanced. For this task, you are given a string consisting of parentheses `()` and `[]`. A string of this type is said to be *correct*:

(a)   if it is the empty string

(b)   if A and B are correct, AB is correct,

(c)   if A is correct, `(A)` and `[A]` is correct.

Write a program that takes a sequence of strings of this type and check their correctness. Your program can assume that the maximum string length is 128.

Input

The file contains a positive integer *n* and a sequence of *n* strings of parentheses `()` and `[]`, one string a line.

Output

A sequence of `Yes` or `No` on the output file.

Sample Input

```
3
([])
((([()])))
([()[]()])()
```

Sample Output

```
Yes
No
Yes
```