

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
```