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