

## Problem C

### Parentheses Balance

Time limit: 1 second

Memory limit: 1024 megabytes

#### Problem Description

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 Format

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

#### Output Format

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

#### Sample Input 1

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

#### Sample Output 1

```
Yes
No
Yes
```