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, $A B$ 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

