Problem Statement Suggest Edit

You have been given a string 'S' containing only three types of characters, i.e. '(', ')' and '*'.

A Valid String is defined as follows:

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1. Any left parenthesis '(' must have a corresponding right parenthesis ')'.
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- 2. Any right parenthesis ')' must have a corresponding left parenthesis '('.
- 3. Left parenthesis '(' must go before the corresponding right parenthesis ')'.
- 4. '*' could be treated as a single right parenthesis ')' or a single left parenthesis '(' or an empty string.
- 5. An empty string is also valid.

Your task is to find out whether the given string is a Valid String or not.

Input Format:

The first line of input contains an integer 'T' representing the number of test cases or queries to run. Then the test case follows.

The only line of each test case contains a string 'S'.

Output Format:

For each test case print 'Yes' if the string 'S' is a valid string otherwise print 'No' otherwise.

The output of each test case will be printed in a separate line.

Note:

You are not required to print the expected output; it has already been taken care of. Just implement the function.

Constraints:

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1 <= T <= 100 1 <= N <= 5000 Where 'N' is the length of the string 'S'. Time Limit: 1 sec
```

Sample Input 1:

3 *()) (*)

())*

Sample Output 1:

Yes Yes

No

Explanation Of Sample 1:

In the first test case, we can replace '*' with '(' so that the string becomes " (())"

In the second test case, we can replace '*' with an empty string so that the string becomes "()"

In the third test case, there is no way to make the string a valid string.

Sample Input 2:

1 ((***

Sample Output 2:

Yes