# Indenting Brackets

## Assignment 2

Computer Programming Due date: 10th October, 2019

**Description:** You are given a string of brackets and you have to indent them, just like you indent code in C. Every new opening bracket is a new level of indentation. For example, the bracket sequence (())() is indented as:

( ( )

This has 2 levels of indentation, because the deepest level of indentation is 2.

#### Input

First line contains an integer T, the number of test cases. For each test case, youre given a string S of parentheses.

### Output

Print the deepest level of indentation.

#### Constraints

 $1 \leq T \leq 50$ 

 $1 \le |S| \le 5 * 10^5$ 

#### Sample Test Case

Input	Output
2	2
(())()	4
(()((()(()())))()	