PES University
Department of CSE
Data Structures and its Application Lab - UE19CS207
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## Lab 5 - Stack & its Application: Parentheses Matching

You are Designing a part of C compiler which requires you to check for balanced parentheses in an expression using a Stack data structure implemented using a singly linked list.

Given an expression string exp , write a program to examine whether the pairs and the orders of "{","}","(",")","[","]" are correct in expession. The program should print 1 for a balanced expression and 0 for an unbalanced expression.

## **Input Format:**

First line contains N, the number of expressions to follow. Each expression is a string made up of parentheses.

## **Output Format:**

For each expression, print the required answer in one line.