

**PES University**  
**Dept of CSE**  
**Data Structures and its Applications Lab**  
**Aug-Dec 2020**  
**Lab 6b – Infix to Postfix Conversion**

You are Designing a part of C compiler which requires you to convert infix expressions to postfix expression using a ***Stack data structure implemented using an array.***

Given an expression in the infix form, write a program to convert it to the postfix form and output the postfix expression.

**Input Format:**

First line contains **N**, the number of expressions.

The following n lines to have one expression in each line. An expression consists of variables and operators. Variables are of a single letter of the English alphabet and the allowed four operators are +, -, \*, and /. Three kinds of pairs of brackets are present ( "(", ")", "{", "}", "[", and "]" ).

**Output Format:**

For each expression, print its respective postfix expression.