| Stack Application: | |
|---|---------------------------------------|
| Balancing Symbol | |
| Make an empty stack Reading Characters If the char is opening symbol -> push If the char is closing symbol Check stack If empty -> error Else -> pop If it is not the corres At the end if the stack is not empty ->rep | esponding opening, error ort error |
| $a + \{b+c*(d-e)\}$ | |
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| Infix to Postfix | |

In postfix expression, we do not have to consider the precedence

a + b * c ab+

Infix to Postfix

- Read operand > output
- Read operator
 - o if the stack is empty of has parenthesis on top -> Push
 - o else check precedence with Existing Operator (E.O.)
 - if C.O > E.O -> Push C.O. (Current Operator)
 - if E.O >= C.O. -> Pop E.O. and Push C.O.
- Read Parenthesis
 - o If Opening Parenthesis (O.P) -> Push
 - o If Closing Parenthesis (C. P.) -> Pop all operands till O.P.
- Finish reading input
 - Pop the rest of the elements (operators)