

Infix to Postfix

$$\left(\left((A/B)^{**}C \right) + (D^*E) - (A^*C) \right) \rightarrow \text{In-fix}$$

↓ ↓
↓

 Operands Operators

In-fix → Operand Operator Operand
 A + B

Post-fix → Operand Operand Operator
 A B +

1. Parantezleri yaz
2. Operator'leri içinde bulundukları ifadenin sağ parantezine yaz.
- En içteki parantezlere uygula, dışarı doğru git.
3. Parantezleri sil

Rules

$+, -, /, *$ left to right → $(A+B)+C \rightarrow AB+C+$

$+ = -$, $* = /$, $(*/) > (+ -) \rightarrow \text{precedence}$

examples

$$(A + (B * C)) + D \rightarrow \underline{A \ B \ C \ * \ D} +$$

$$A - ((B+C) * D) \rightarrow A \ B \ C \ + \ D \ * \ -$$

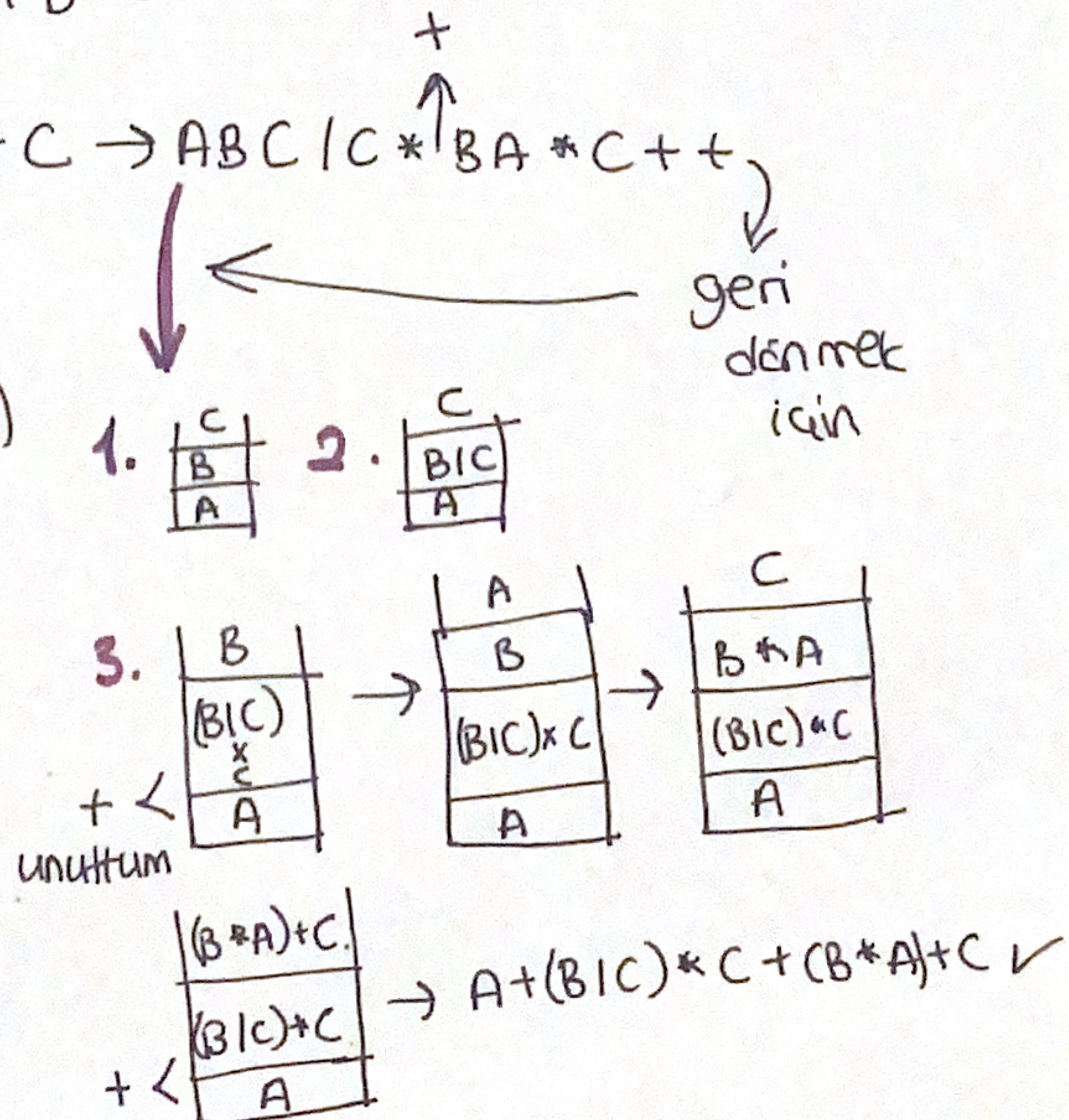
$$A + ((B/C) * C) + (B * A) + C \rightarrow A \ B \ C \ / \ C \ * \ B \ A \ * \ C \ + \ +$$

To validate:

1. Put operand to stack (Iterate over the expression)

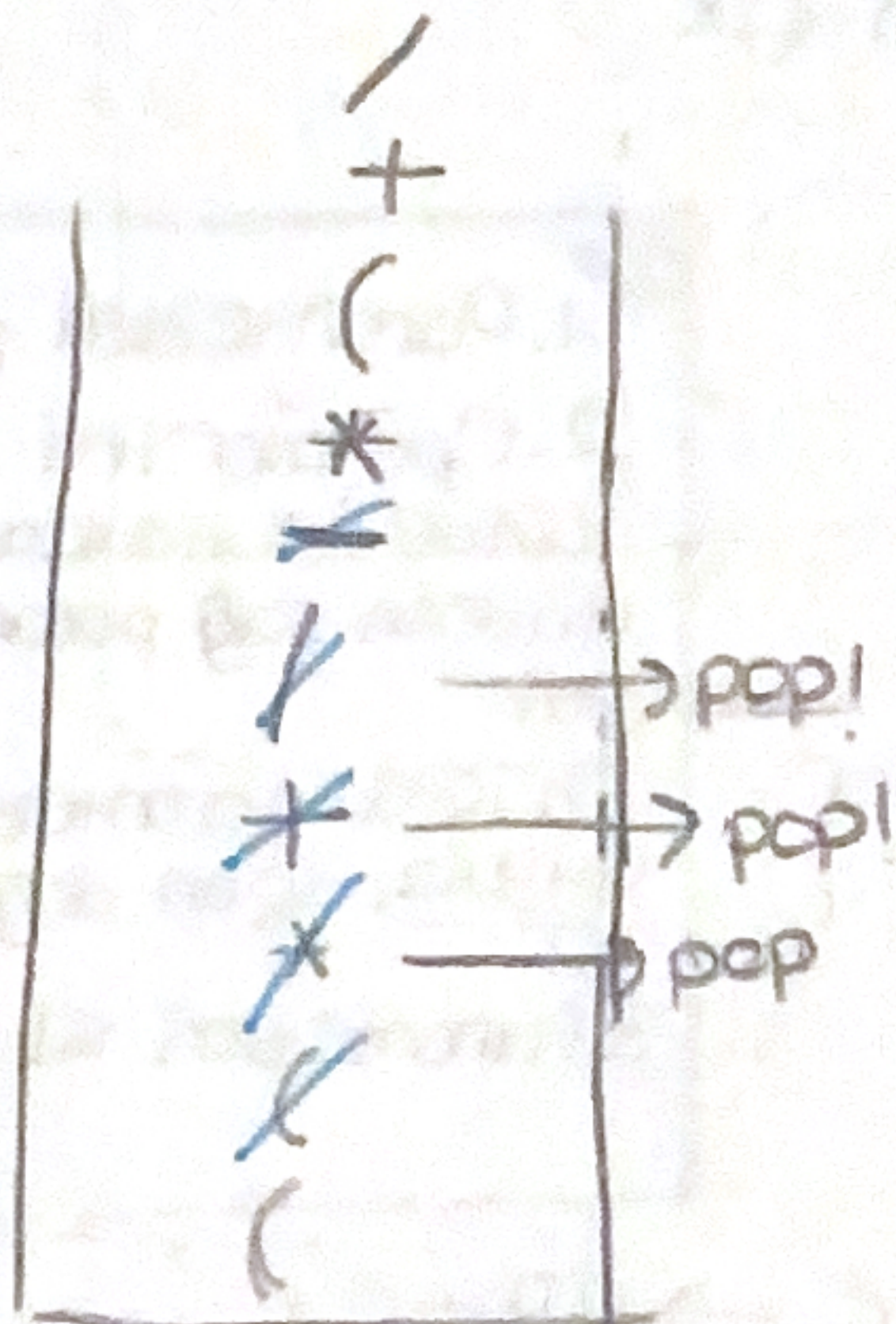
2. If you encounter an operator, pop last two elements, apply operation,

3. Keep going until no element is left.
 (Eleman kaldysa isaret unutmuştundur!)



Infix to Postfix

$((A * (B + D) / E) - F * (G + H / K))$



1. If operand → write
2. If operator → push
3. If operator > op on stack, push
4. If op on stack > next operator, pop all operators
5. If (, push on stack
6. If), pop all of them until (shows up

$ABD + E / * F G H K / + * -$