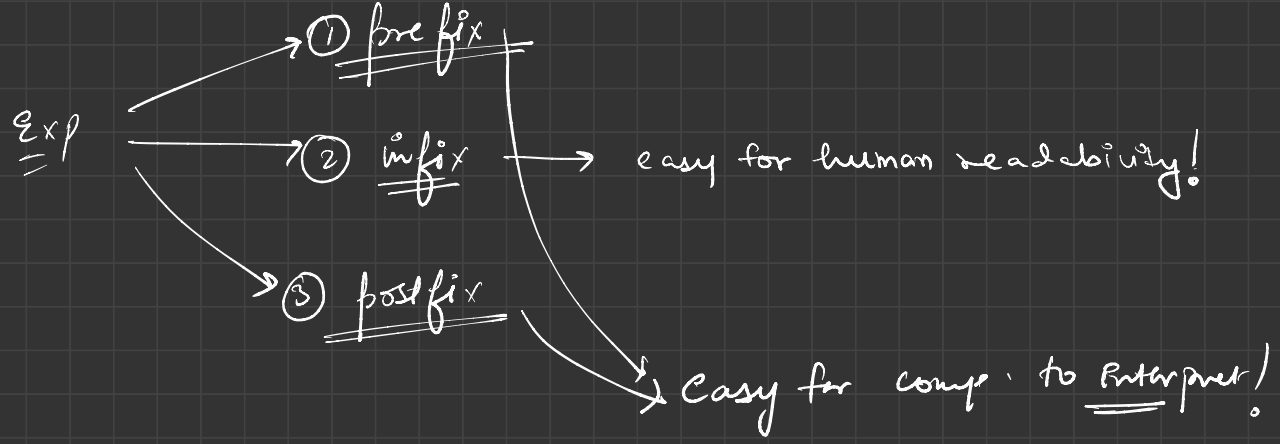
infix evaluation & Conversion



$(a+b) / c - d * e$ ⟶ infix

↓

(evaluate)

+ , − , / , *

priority ↑

bracket has to solved first

/ , * ⟶ same priority

+ , − ⟶ same priority

$[\ (6+4)/5-2*3\ ]$ → infix exp

$10/5-2*3$

$2-2*3$

$2-6$

$= \boxed{-4}$

$(6+4)/5-2*3$

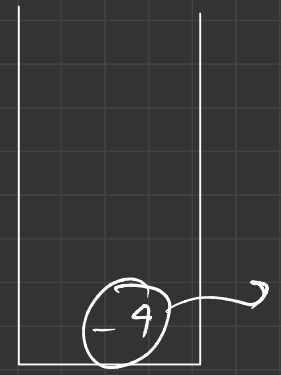
priority

1. Bracket
2. *, /
3. +, -

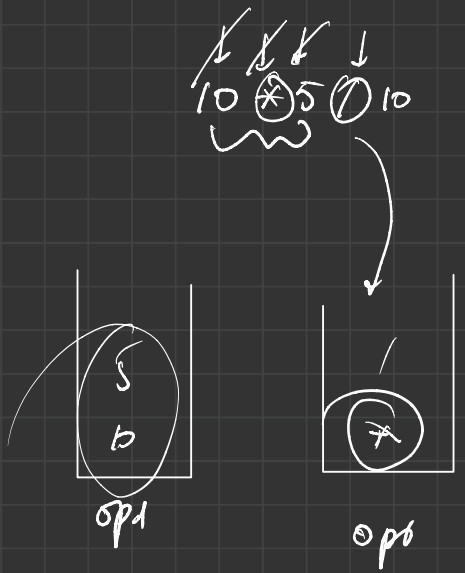
(→ add opr

digit → add opd.

) → solve everything till opening bracket.

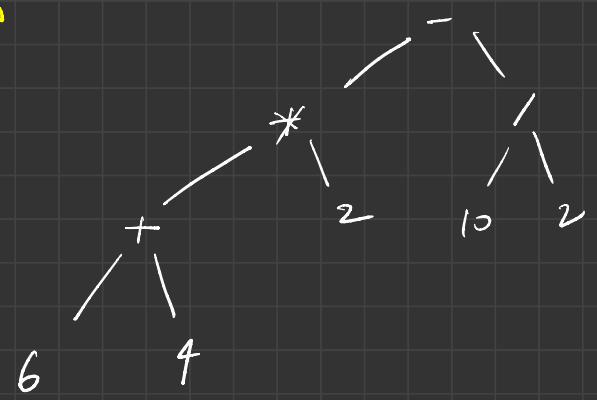


-4 ✓


10
5
10
5
b
op1
op0

$(6+4)*2-10/2$

evaluation



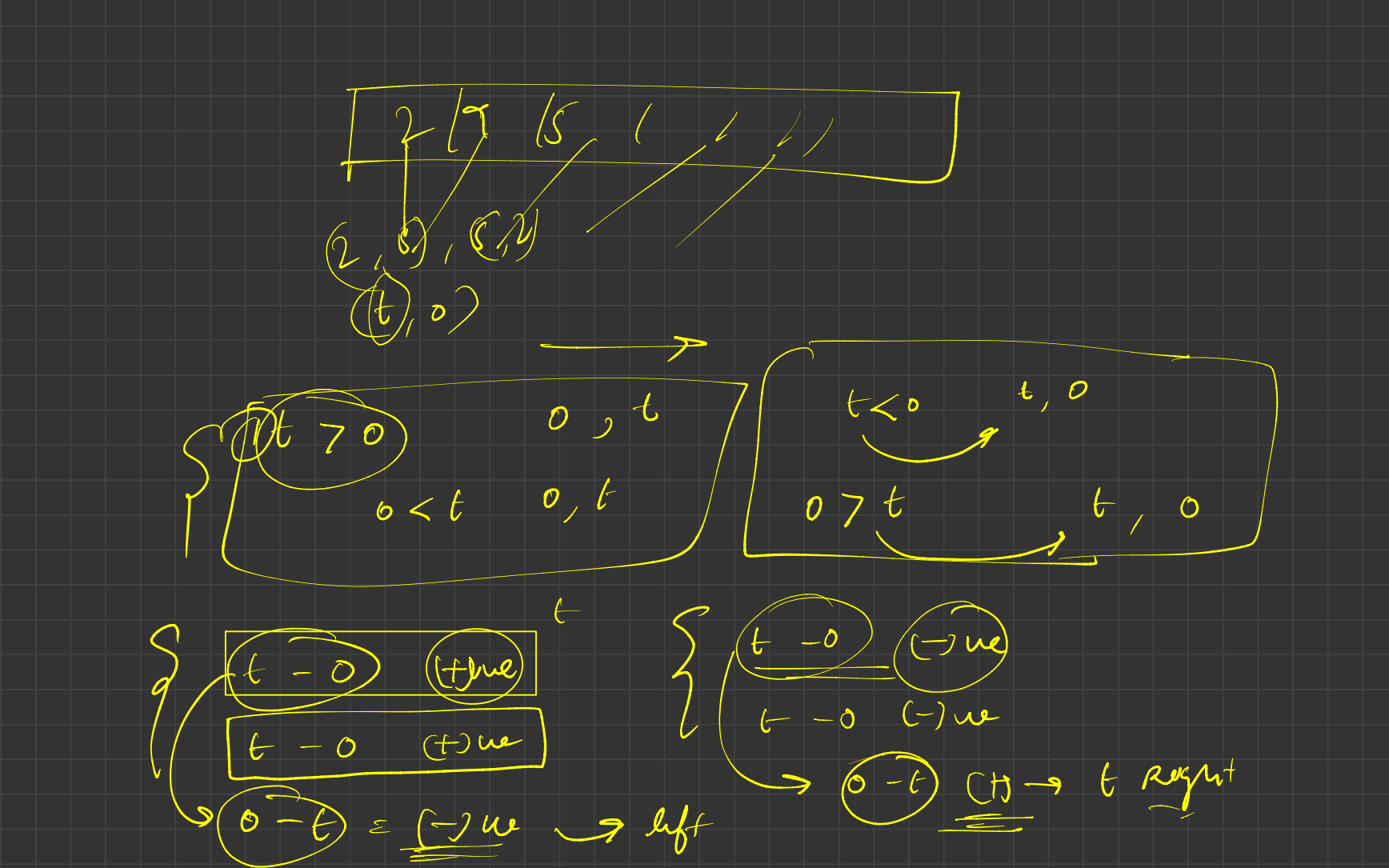
prefix

pre order

$-*+6\,4\,2\,/\,10\,2$

$-*+6\,4\,2\,/\,10\,2$

$6\,4+2*10\,2/-$ postfix


t > 0
0 , t
0 < t
0 , t
t < 0
t , 0
0 > t
t , 0
t - 0
(+)ve
t - 0
(+)ve
0 - t
(-)ve
Left
t - 0
(-)ve
t - 0
(-)ve
0 - t
(+)
t Right

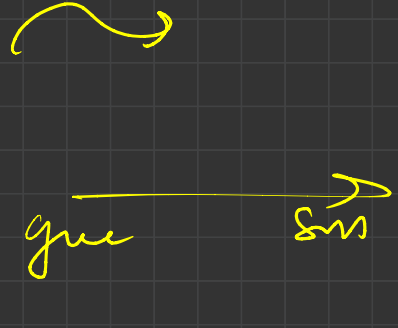
(+) ve → t on Right (t - 0)

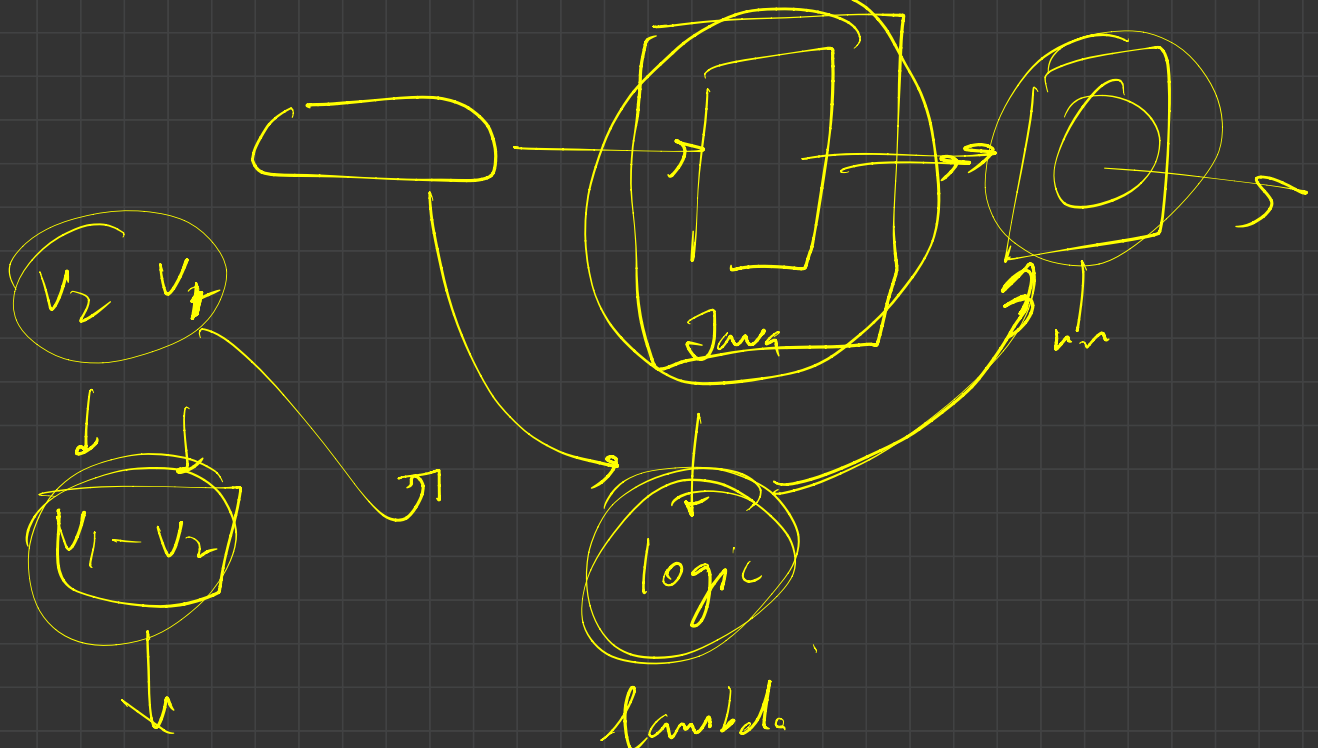
(-) ve → t on left

(0 - t)

(+) ve → t on Right

(-) ve → t on left




Java
logic
lambda