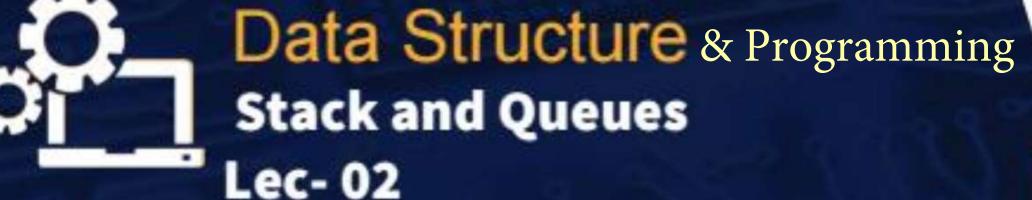
CS & IT ENGINEERING

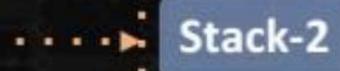








TOPICS TO BE COVERED



Infin to Postfix Priority without

Associativity using stack osing Stack Ex1: infix: 2+3×5 35X Pastfix: 235X+

infin:
$$2 + 3 \times 4/612$$

$$2 + 3 \times 4/621$$

$$2 + 3 \times 621/+$$

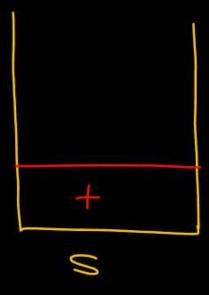
Theory:

Easiest R to L × , /

Using stack

infix: 2+3

Postfix: 2



+ is encountered

>> stack is empty
Push it onto stack.

infix: 2+3 (End

Postfix: 23+

Postfix: 23+

+ is encountered

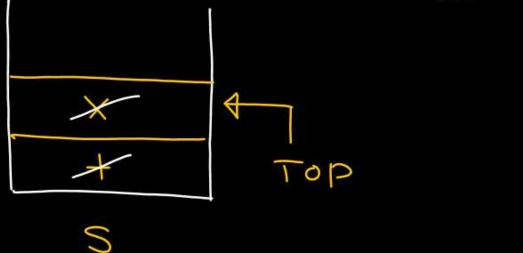
> stack is empty
Push it onto stack

Ex2

infix: 2+3×44 End

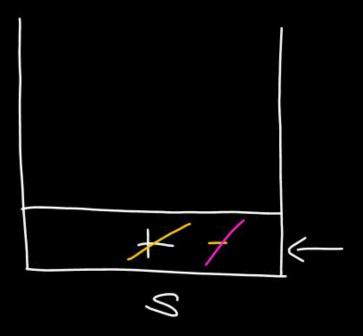
Postfin: 234X+

Doc:
VIP -



Ex3 infix: a+b-c End

Postfin: ab+c-



Poc

Exu infix: a+bxc/d

Postfix: abc

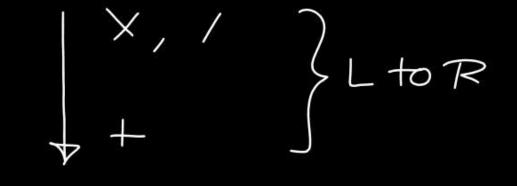
Same

X = TOP

 $\left\{\begin{array}{c} \times \\ + \end{array}\right\} L + b \mathcal{R}$

Exy infin: a+bxc/d End

Postfix: abcxd/+



$$a+b\times c/d$$
 $a+[bc\times]/d$
 $a+[bc\timesd/d]$
 $abc\timesd/d$

- Right forenthesis EXS End Only delete Postfix: 2 3 4 × 6 2/-+ TOP

ENG.

infix: (a+b)xc/d-effq/h

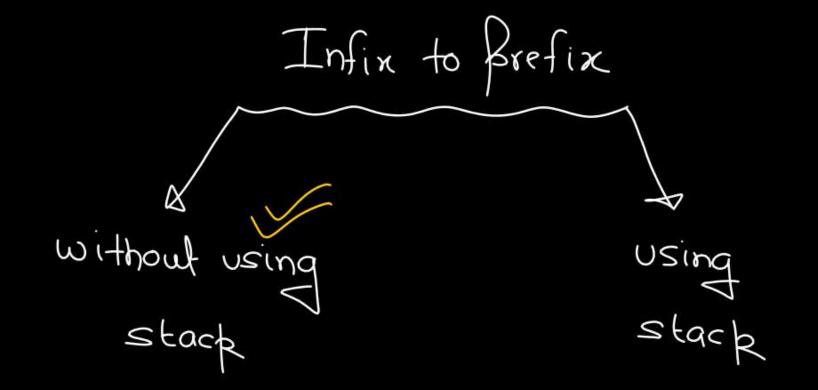
Postfix: ab+cxd/efg11h/-

-t. + K + X + 2 min

1 (R to L)

X/ LtoR

e 1 (1 og)



Extinfix:
$$2+3\times5$$
obt
$$2+[\times35]$$

$$+2\times35$$

8,2

infin to brefix

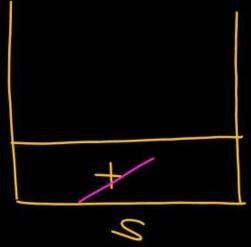
EXI

infix: a+b

reverse infix b+a

0/P: ba+

reverse o/p: +ab



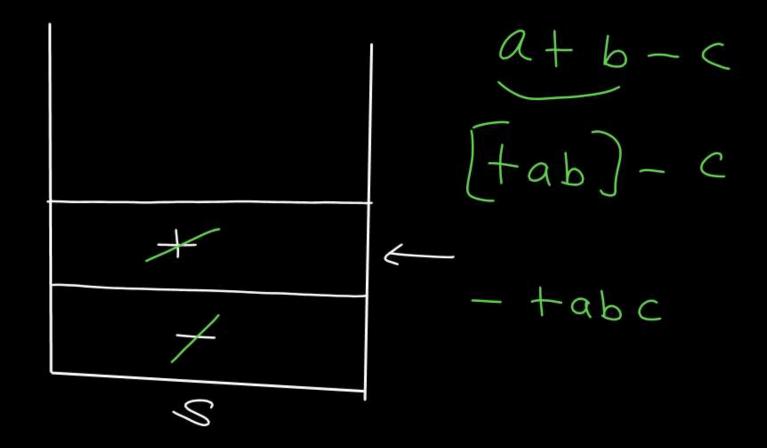
Ex2

infix: a+b-c

reverse infix: C-b+a

0/P: Cba+-

reverse o/p: - + abc



Ex3.

infin: 2+3 x4

reverse infin: 4x3+2

0/P: 43 x 2+

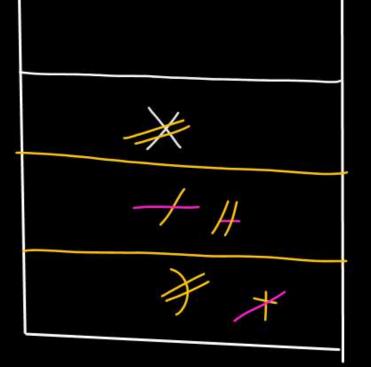
XX

reverse infin: a + (bxc-d/e)

veverse infin:) e/d-cxb(+a

0/P: ed/cbx-a+

reverse o/p: +a-xbc/de



reverse infin: A + (BxCTDTE - F)

Yeverse infin:) F - E DTC XB (+ A

CTDTE

O/P: FEDTC TB X - A +

Yeverse OP: + A - X RTCTDEE

