



Stack & Queue -Part IV

Course on Data Structure

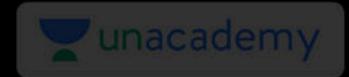


CS & IT Engineering

Data Structure



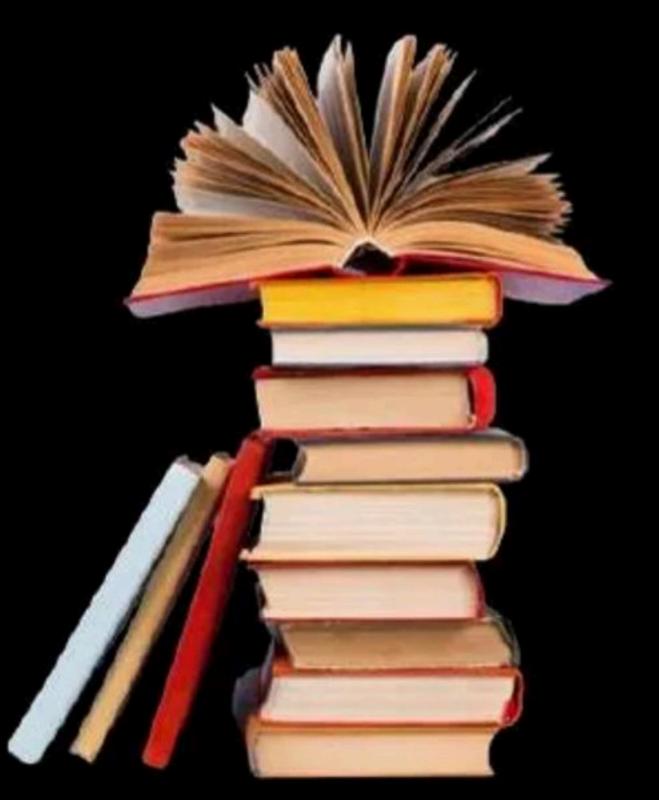
By- Pankaj Sir



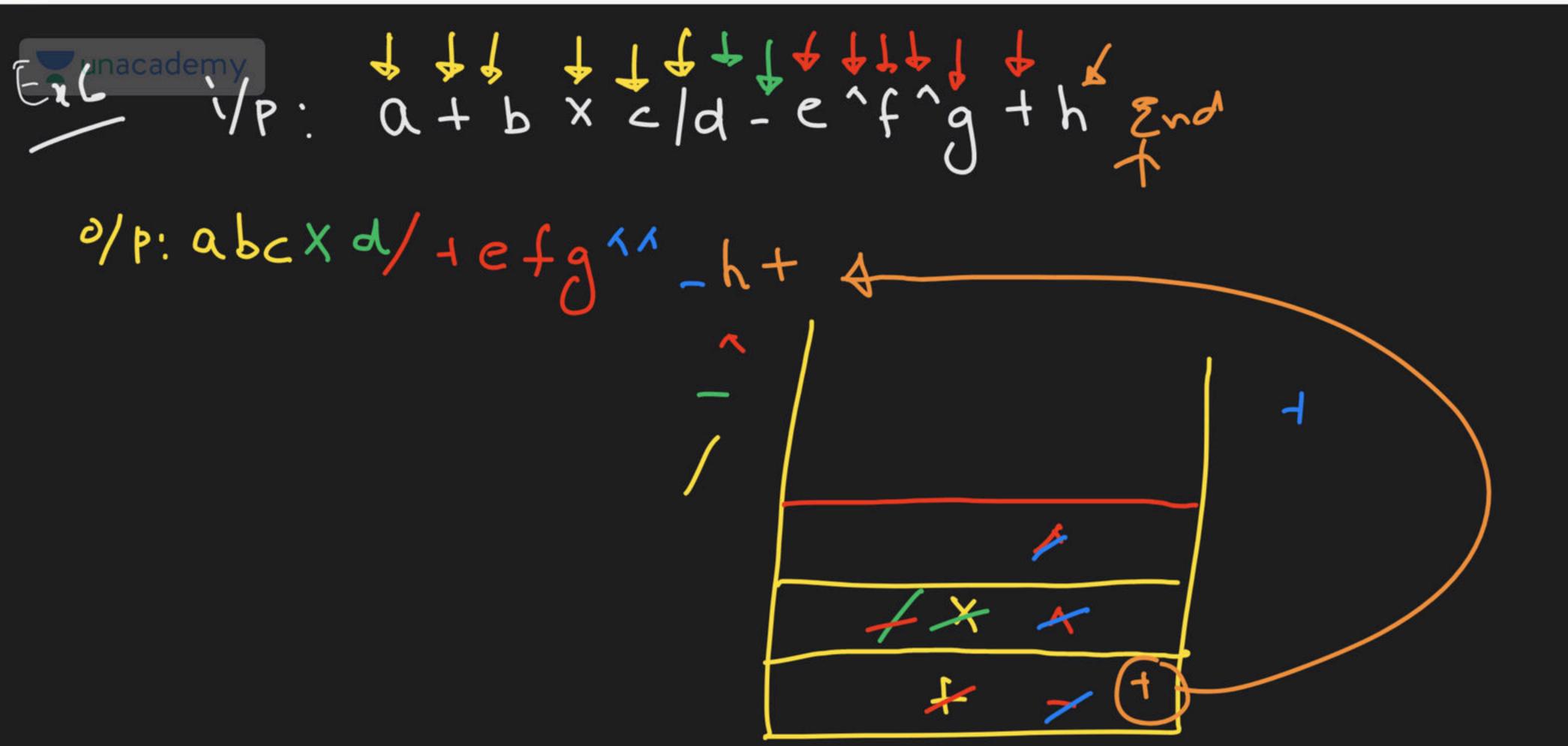


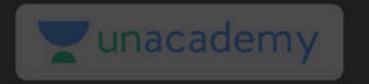
Topics

to be covered



1 Stacks & Queue





Infix to Trefix

without stack USing stack infix: a+ bxc obl at [xbc]

Prefix: +axbc

infix: a + bx c - d/c^f/g a+b × c - d /e ^[^fg] a+bxc-d/[/e^fg] a+[xbc]-d/[^e^fg] at [vbc] - [/d^e^fg]

[+axbc]-[/4/e/ta] -+axpc/d/e/ta

13. unacademy
15. (a+b) - d/(c-d+e)

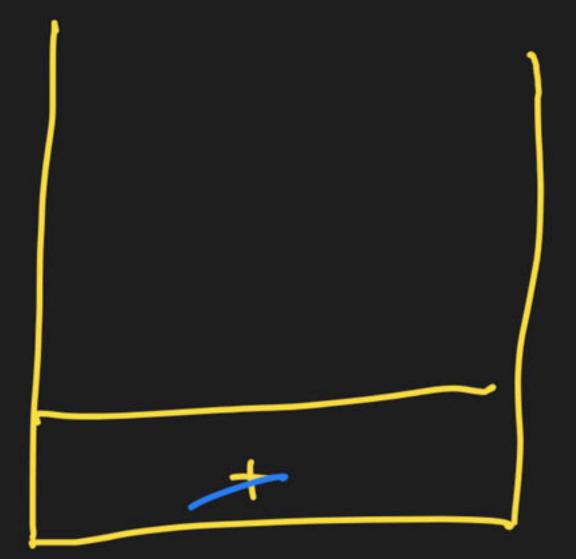
- +ab/a+-cde

infix to prefix using stack

Ext infix! 2+3
Reverse of: 3+2 and +
infix

0/P: 32+

Reverse: +23



Ex2: 1/P: Q+b-c

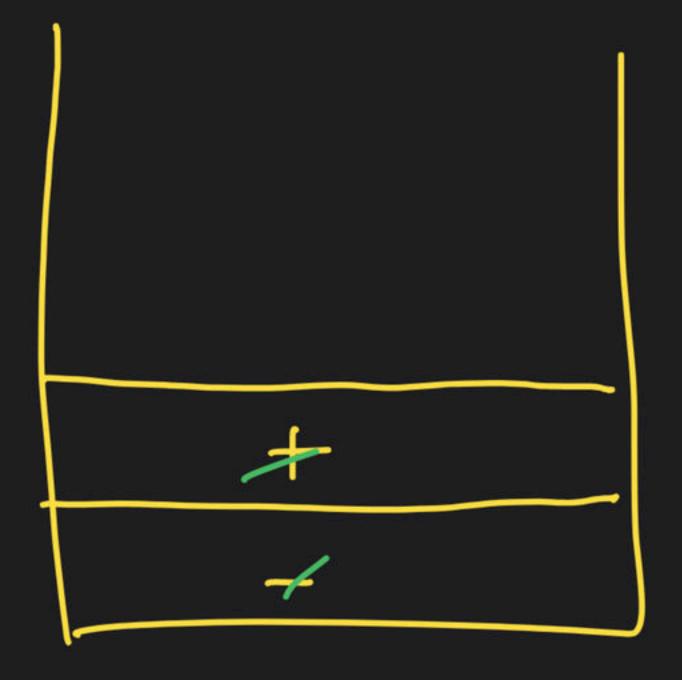
チチチチ

Reverse of: < -b+a2-d

intin:

0/P: cba+-

Reverse: - + abc

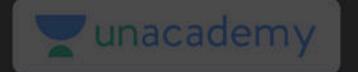


= x3. infix: 2+3x4 Reverse of: 34342 Sud infix 0/P: 43×2+ Remover: + 2 x 34

XX

Ex Thacademy infix: a+ (bxc-a/e) End 0/P'. ed/cbx - a+ everse of 6/p: +a-xbc/de

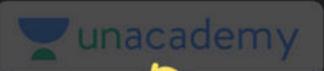
"Hix: A+ (BXCTDTE-F) Reverse infin:) F-E TDTCXB (+A */P:FEDTCTBX-A+ Remado: +A-XBTCTDEF



infin Postfix Prefix Eval.

Postfix Evaluation

'Infix: 243 X5
Postfix: 243 X5



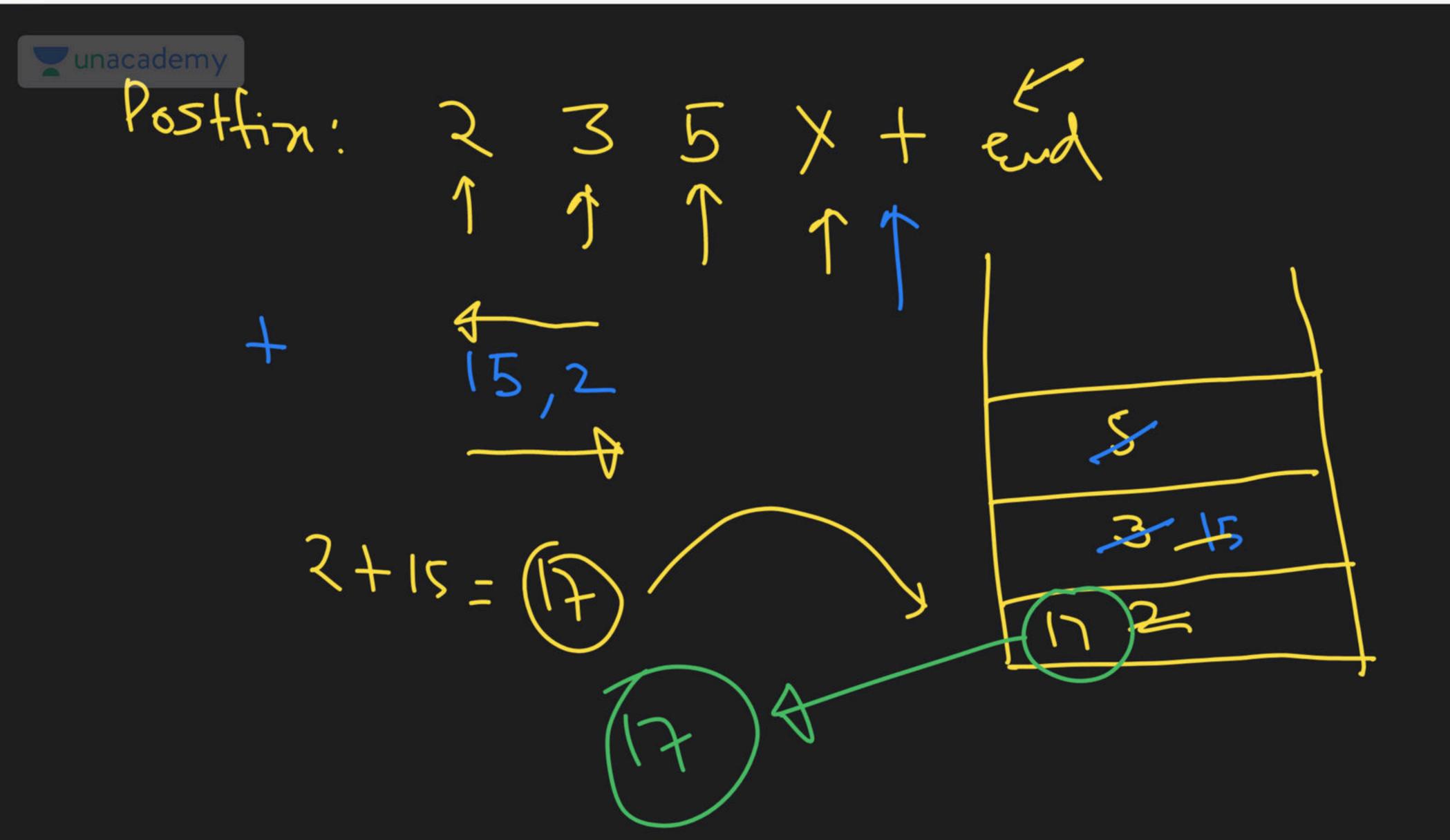
Postfin: 2 3 5 X +

(X) -> Pap 2 elem.

A -4 1st elc

B -724 elc

A = 5 | perham B(B)A



Postin: 2 + 3×4 - 6/2

Postin: 2 3 4 × + 6 2 / -

Postix: 2 3 4 x + 6 2 / -7 1 1 4 /2 order Push 2+12=14

Postfix: 234x+62/-K 2,1 6/2 = 3 Arswer

without using stack

(6) 314-7

infine to brefix

Infin: 2+3×5
Prefix: +2×35

Prefix: + 2 x 35

Reverse Prefix: 5 3 X 2 + 94d

The property of the server of the server

X 3/5

+ 2/15

3×5 / 10 / 3 = 11

2+15

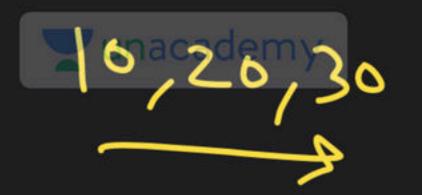
3 2 5

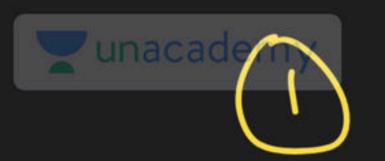
Ams

Stack

aregys + Pep) D(1) (bustque time.

using Lil. (LIFO)





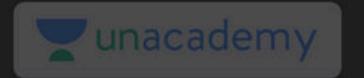
head

2) Push (10)

head I rolx

(3) Push(20) => Insert_at-beg => 6(1)
head

1261 > 4 [10]x

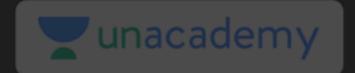


Push (36)

1 + 36/ 34/20/ F [10/x]

Pæf =1 telete from brg = 0(1)

(1) 8/2d + 8/16/X









THANK YOU!

Here's to a cracking journey ahead!