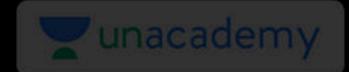




Problem Solving

Course on Data Structure



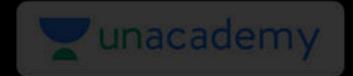
CS & IT Engineering

Data Structure

Arrays- IV



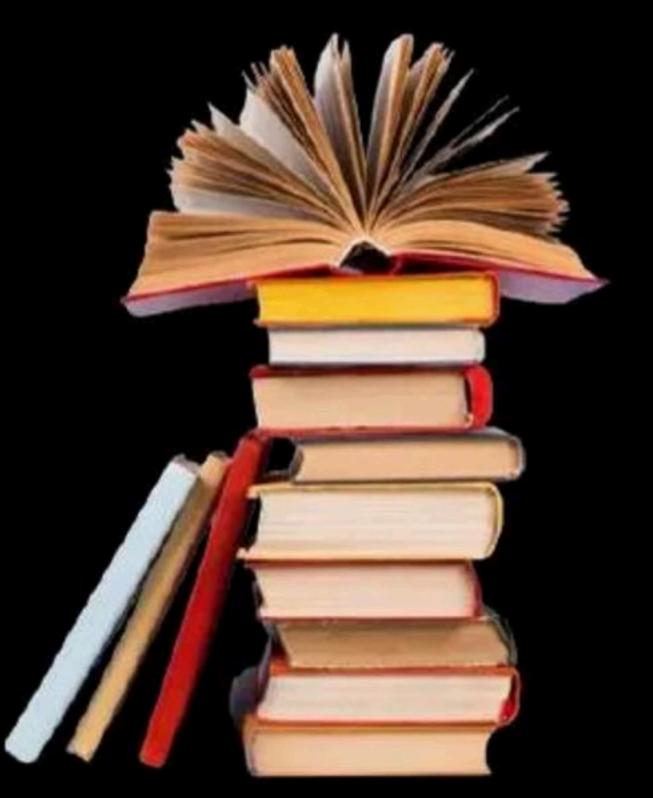
By- Pankaj Sir





Topics

to be covered



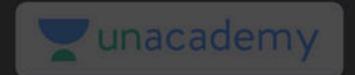
1 Arrays

Triang ulax MO Moting add (953) Cals already filled = (all, (al2 A42 A43 A44 0 A52 A53 A54 A55 (5+4)=9

A11 A21 A31 A41 A51 A22 A32 A42 A52 A33 A43 A53 A44 A54 A54

Triangular CMO Motrix add(953) Cals already within sid A21 A22 filled cle already fixed AJI A32 A33 000 AVI AV2 AV3 AVN 0 ASI A52 A53 A54 A55 Actore C133= = (all, (al2 (S-3)(5+4)=9 = 2 ele

C Micademy 0 add (aij) 91 932 costs already filled : call, call, call, ... (a), ... (a) j-1 $3M^{cM} = N-1 = N-(5-1)$ N-2=N-(3-1)ans ans



$$[N + (N-1) + (N-2)1 - - - + (N-j+2)]$$
 \uparrow

1St

Asst

$$S_{N} = \sum_{j=1}^{N} \left[T_{j} + R \right]$$

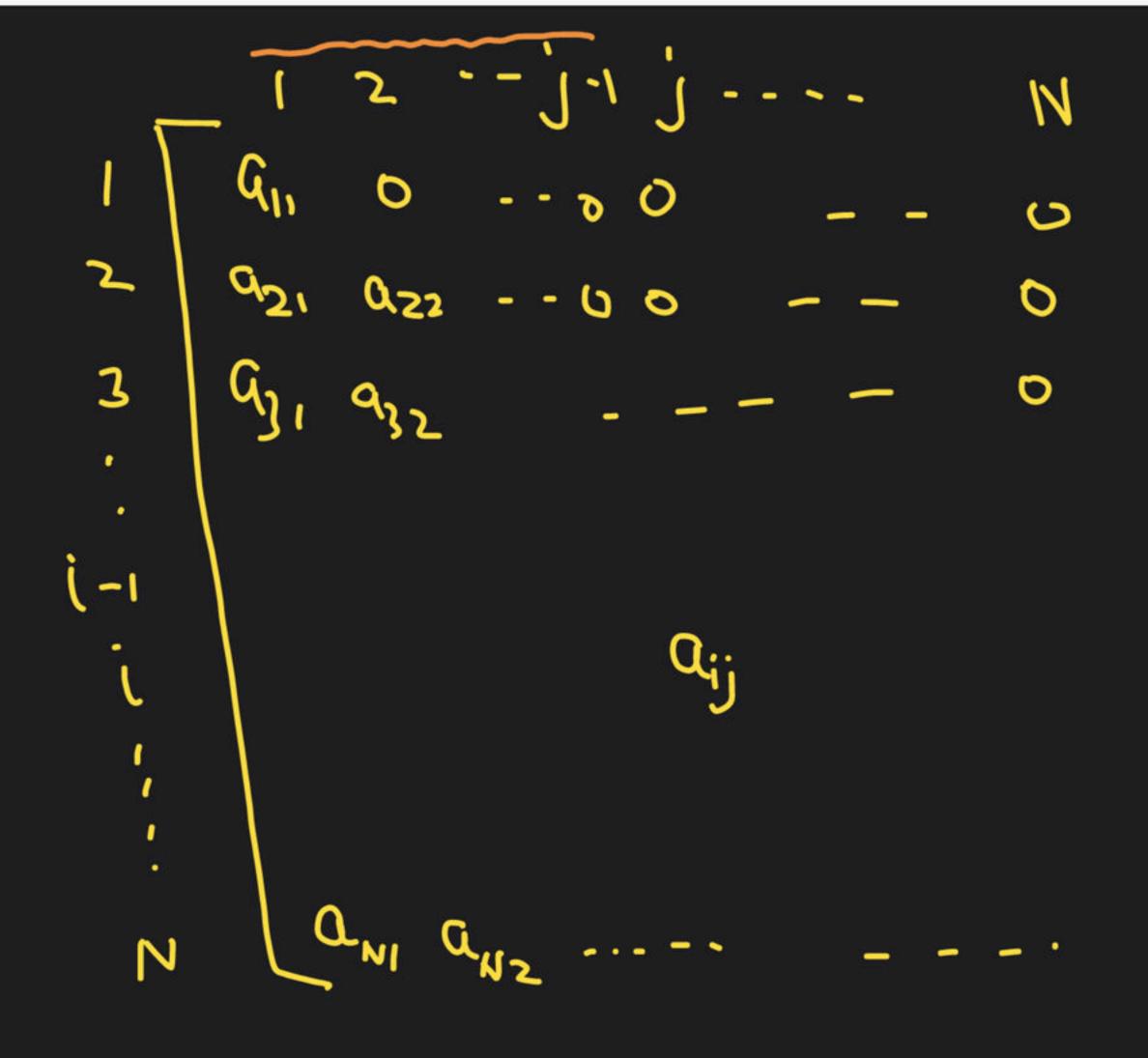
$$\Rightarrow \qquad \frac{1}{2} \left[N + N - j + 2 \right]$$

$$= (j-1) \left[2N - (j-2) \right]$$

$$= (j-1) \cdot N - (j-1)(j-2)$$

$$= 2$$

CNGcademy add (aij) within 1th cul, ele refore Aij $= \left(\left(\left(\left(\left(-\right) \right) \right) \right)$



Istal cle. already filled before aij

$$= ((i-j)) + ((j-1))N - ((j-1)((j-2))$$

[00][1.1][00][1.1]A 900 (A[50)[43]) Within target carl Me. alverty fillet = 56-43

- 7 e/e.

CM16 BA = 1000 10 - 2 byte Cols already Silved 1,2,3,--- 42

654--+86+65+001 = 45 [100+22) = 51 X123

16+21 ele. alreay filler = 3339 +7 = 3346 elements

Memory already filled before Aso, 43 - 3346 XZ 6192 Bytes 6692Byks->

1666

972 (Ago 43) = 1000 + 6172 (7692)

41 241 50-(-3071 [-30..30][-50..50] (Mb W=1byte, BA=1000 and (A[-2)[-4) aga (A[-2)[-6)) - 20,-19,-..-8,-7, -7-(-28)-11 21/4 (285 [41+ 26+39+--+28]

41 241 50-(-3071 (Mb 60=164te, BA=1600 and (A[-2)[-4) add(4[-2][-4)) within (a) index 4 - 2 - (-1) = 4 elc. -7-(-2×)-11 -1/4 cods [41+ 46+39+--+28] unacademy

Total ele-already Jilled = - 487 clements tremony wordy Silled = 487 XI By = 487 Bytes 14004187

1000

CMb A T-3..3) (-s..1)

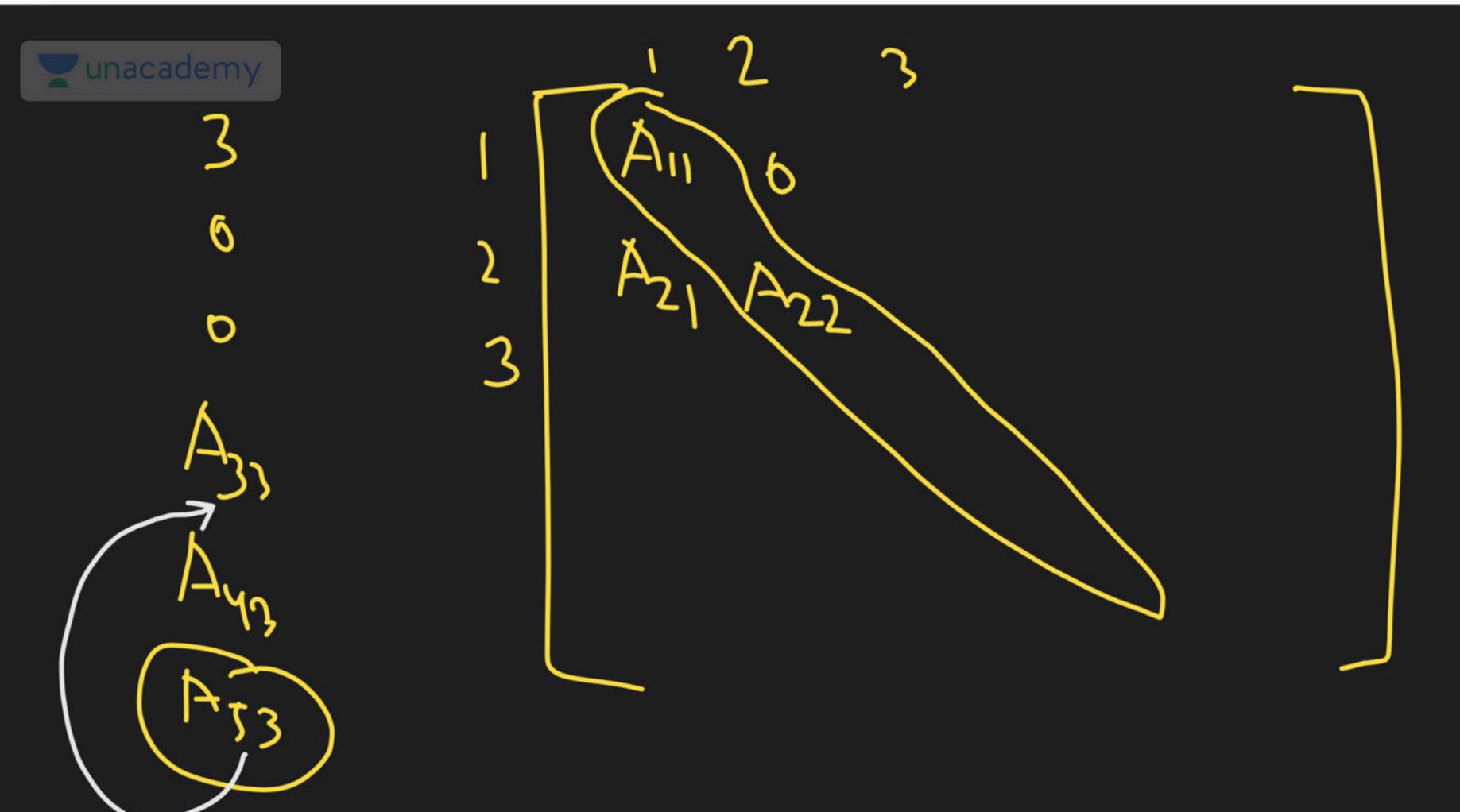
ω=26/11/3A=1000

90.1. + wrong answer?

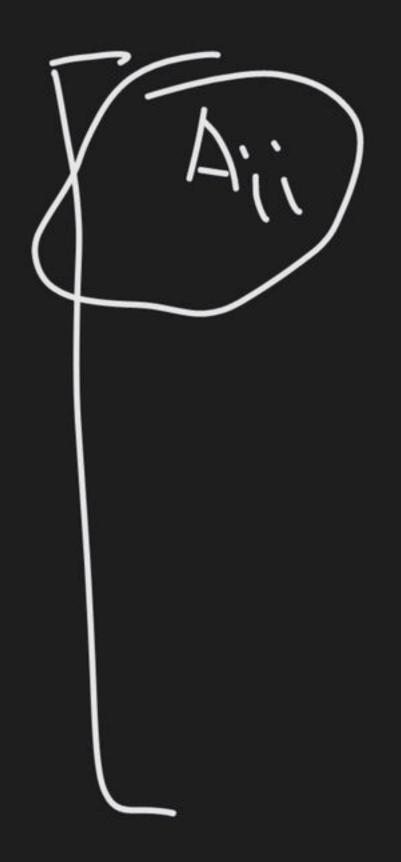
1052 Soemba Nibtaa dega 10064 Soemba Nibtaa dega 1006

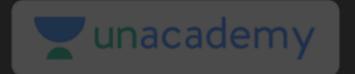
formula already Jilled within (al Inter - -5 to -2 こ -2-(ろ)そ 3-(-1)= 二 以(此) フナ&ナSナY = 22 element -3-(-5)=2 -5)-4-3-2-1 61 × 0 0 0 0 6 - 2 X X 0 0 0 0 b XXXOOOO - / o o o x x x x o o o XXXXOO unacademy

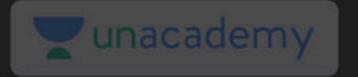
add (3, -1) 22+2 = 24 element Memory = 24x2 - 48 Bytes - 2 1, nd) (600 +48 =1648



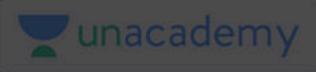








Upper triangular Matrix



7 300 Briggiam 2nd Sem

Opper Trianquer Matrix aad (934) 912 within now Jonal 10005 2 922 0 index 3, ele. adready fined 6 betore azy = (4-3) = 1 elem 6 0 =7 element GILY 924 a13 G22 0(23 933

unacademy H·W

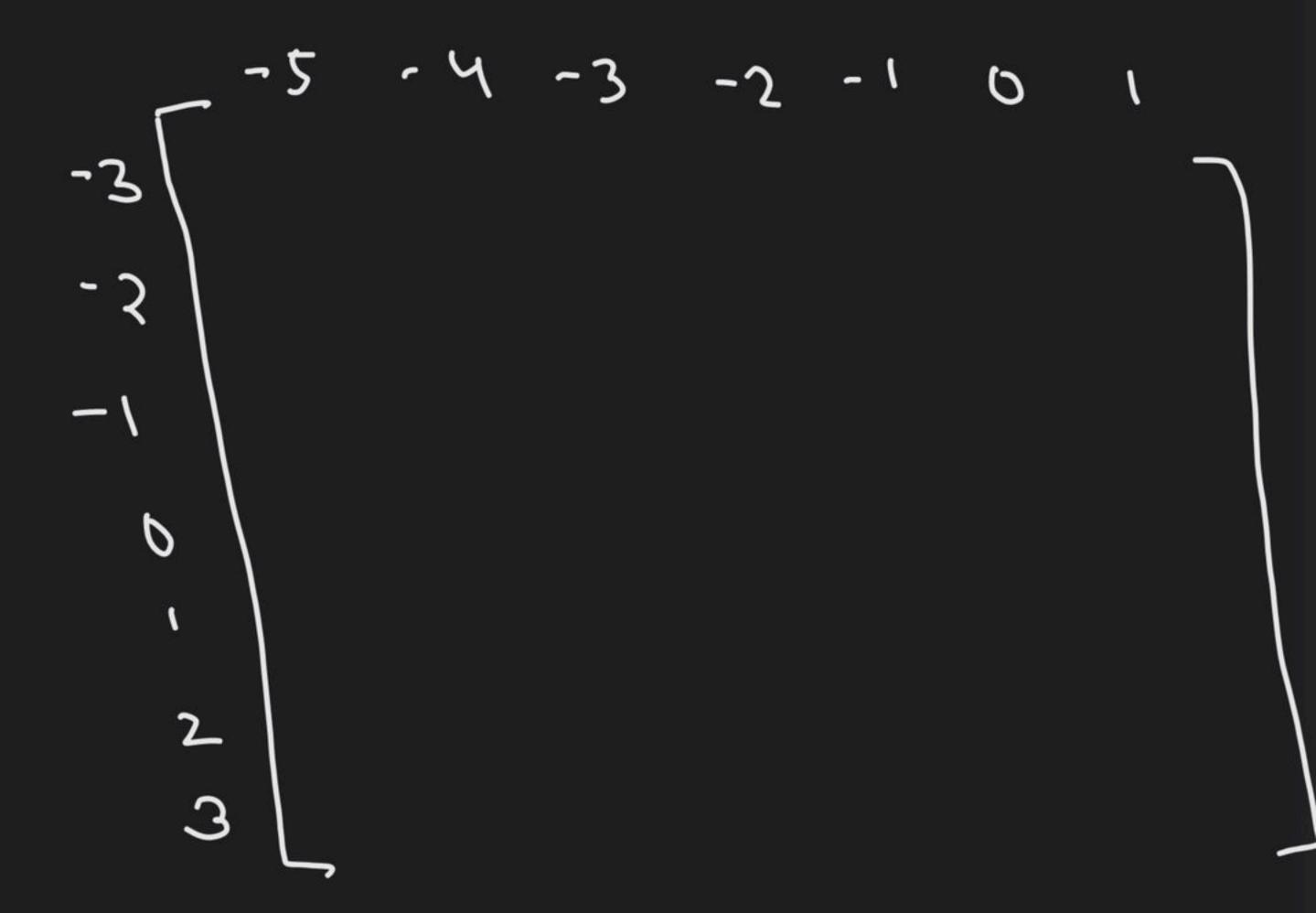
Upper Triangular Mutrin RMO

add(aii)

?

Johnson











THANK YOU!

Here's to a cracking journey ahead!