



Stack & Queue - Part VII

Course on Data Structure

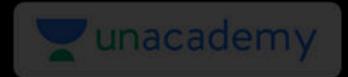


CS & IT Engineering

Data Structure
Stack & Queue



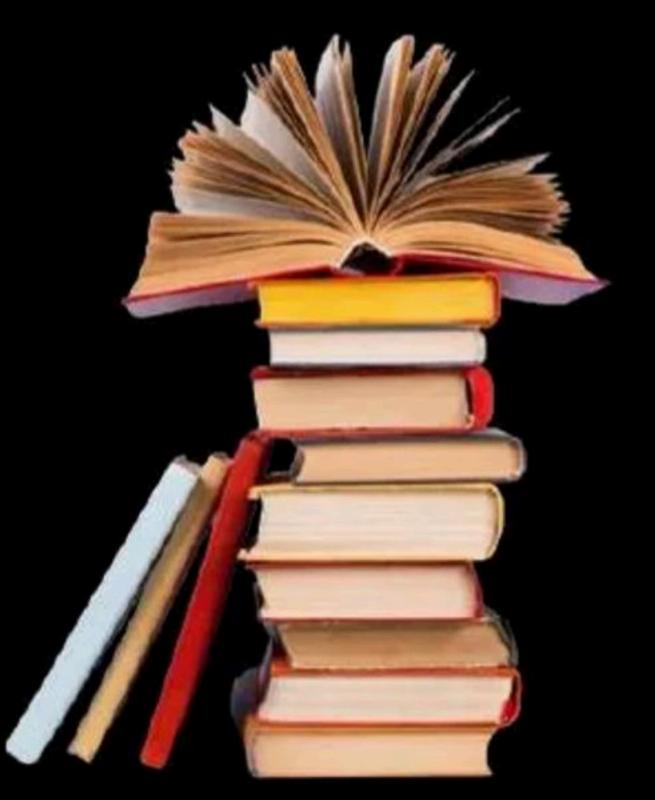
By- Pankaj Sir





Topics

to be covered



1 Stack & Queue

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Test series - A 2 subject l'ompléfe
6 subject



30 Mock P Test Sertes Silly mistake new touts Improve me ut

void func (= twith nade = hear) { Struct hode *P = head, *q = head; while (a) = NULL If a > hexti= null It a > hext+ hock = null) 7=P-nexti からからた一かいくと of ("·/c", P-)data);

XIJ A [1] A [1] A [1] XI (IX) int func (struct node *ar) { Static int K=0; 24mcf made * Pfx = ar; if (1PF-1) Letran 0. else if (9t~ - next == NULL) return K+= Plandata; K+ = Pt-v - Lata; func(Plan > next);

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1-A2-B3-B4-B5 void func (struct nade +p) { 'int temp; struct hade *w=P-next, If (IP | I (P JuexFI) return; </se temb = a > data; ~> > > data = P - data; Produta = temt; -/ unc (P-) next -hext);

QJ Z 3 4 5 1 b) 54321 . 421435 d) 2, 453 Q) Consider the following seq. of operation on an empty stack: The value of PH gyty is Push(5); Push(2); Pof (); Push (41; Push (b); P = Pop(); ひこりか();

1+47

2.) which of the following in hat an application of struct. Attecursing Junction calls At thecking it an exp. contains balanced Deranthesis None of these

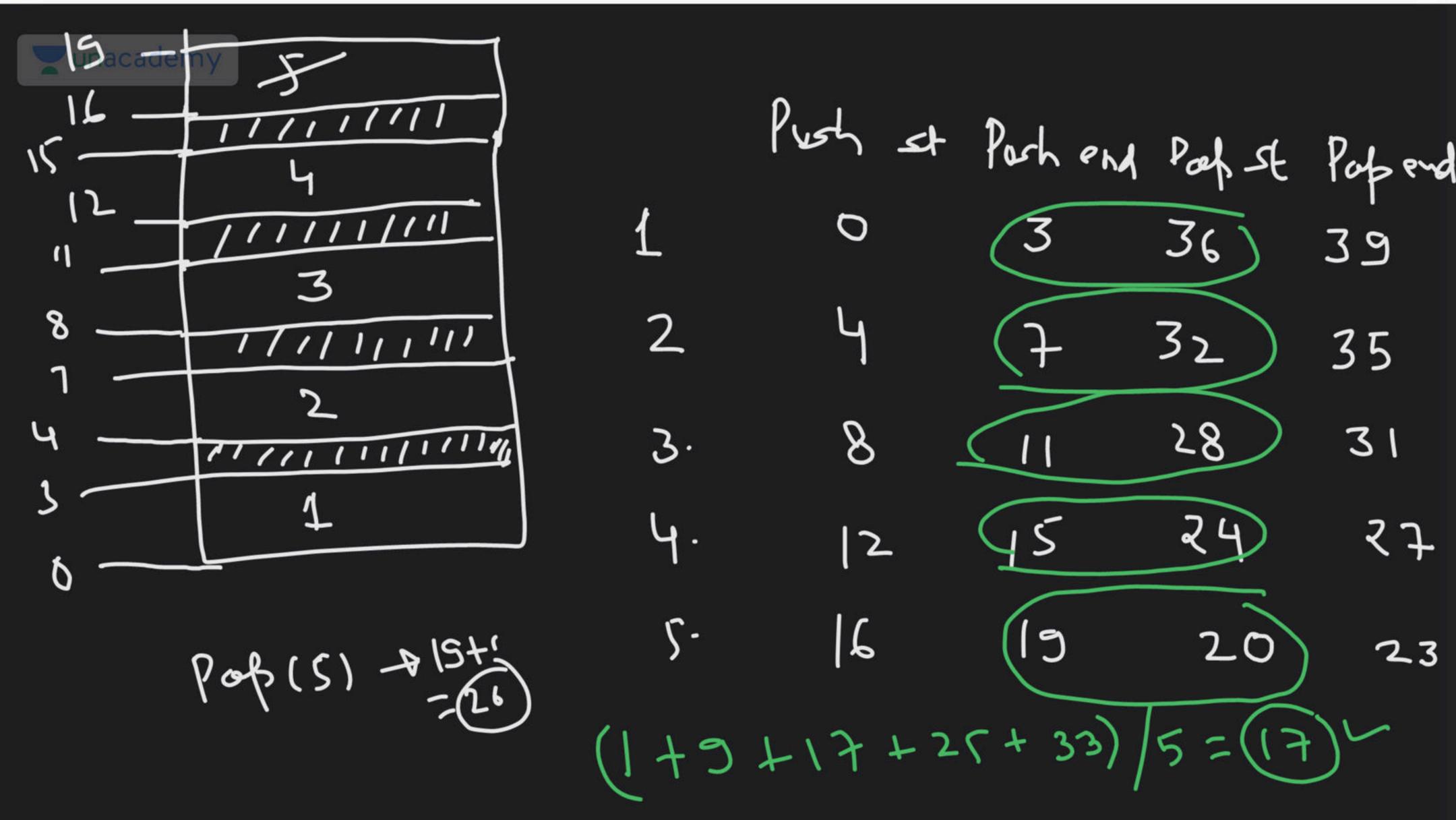
Quality one of the following permutations

Can not be obtained in the pp string using

a stack I assuming that the ipp

sex-is abjected in the same order. 1 caeab 10 Rebod Ve Ach W cdeba D) e d c ba

9) Let- 5 be a stack of size n>1. 5-landing with the Empty stack, suffose we fush first s natural numbers in sexterned then perform 5 for n.w operations- Assume that tush and pop Sperations tuke 3 secs each and 1 sec elapse b/w the end of one such stack of. And stark of next of. The grenge stark life of an element of this starkis —



9/ P-Q/(RXS)+TXU The prefix is! M-++10*RS*TU BY+-P/9*RS*TU 4) +-PQARSYTU Dhone

(3 1 Sast operation P-Q/[xrs)+ Txu

P-[/axrs]+ [xTu]
P-[/axrs]+ [xTu]
[-P/axrs] + [xTu)

P+Q/R-SXT NU/V-W Postfix is? P+Q/R-5°X[TUN]/V-W PT [OR] - [STU X] V - W P+ [arj-[stu^xv/]-w [PQR/+]-[STU^XV/]-W [PQR/+STU^XV/-]-W >> PQR/+STU^XV/-W- Quinacadery

Onsider the intix <xb! PXQ/R-S*+1/V*W On reaching symbol V, the top 2 element of the oberator sharp (while convening into Location) are: postfix) are:

= unaprodemy Q/R-S*T+U/V*W ~/p'.
PQXk/5TX-

moji

/ L

Punacademy
Postix Expression:

8 2 3 ¹/5 3 x + 2/-

The vesult of Eval. the above postfix emp. is

(8 8 /) 5 3 X + 2 /3-1(53) + 2/3-(6 2 /B-

Here X be the Yesult when the following postix is val: X = 831+-5,15-*+ and I be the result of following post-fin Y = X 3 14 +

My + XII si Hardar ?

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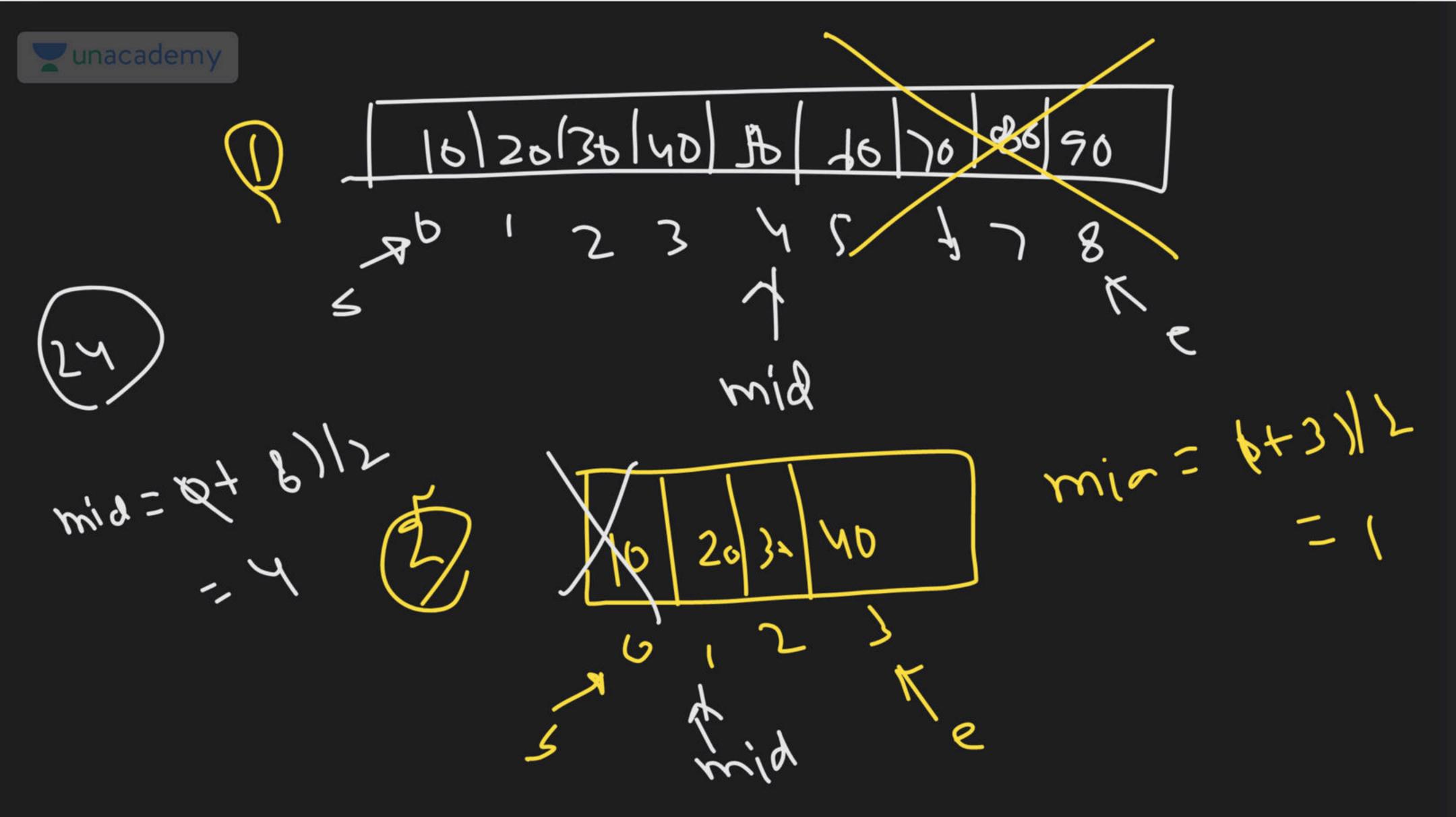
$$Y = X 3 1 4 + X 4 Y$$
 $Y = (93) 4 + (-1)$
 $(34 + 1)$
 (-1)

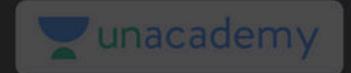
I consider a singly L.L. of n elements, then
the time to interchange with I stratement
is:

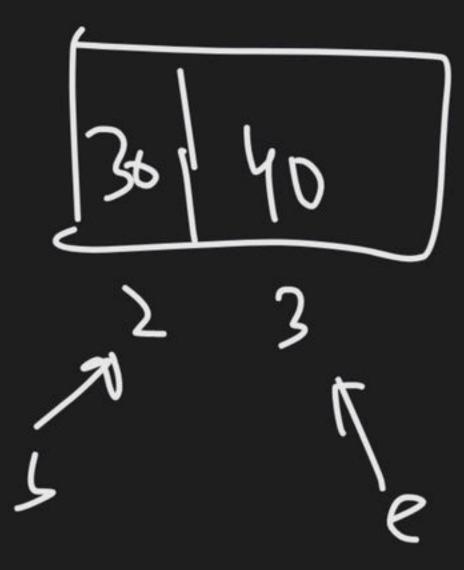
Max (m,)

Turcademy
10 apply Linary search which of the following data structure is are suitable. A) SLL 3) 511 18 Array

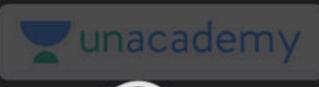
D) CLL







Q Ah hxn may vis defined as 40110ms: V[i,j] = i-j for all i,j 15150 The som of clements 15150 Are may vis __ V(1 - 1-100





(2) Linked Nist

(3) stack

Movere A(1)

(5) Trees -8(8-9)

(7) Hashing -21

(5 Lec)

(c) (raphs representation

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$$x = 8(31+)-2^{1}2-*+$$
 $(2)^{1}12-*+$
 $(2)^{1}12-*+$

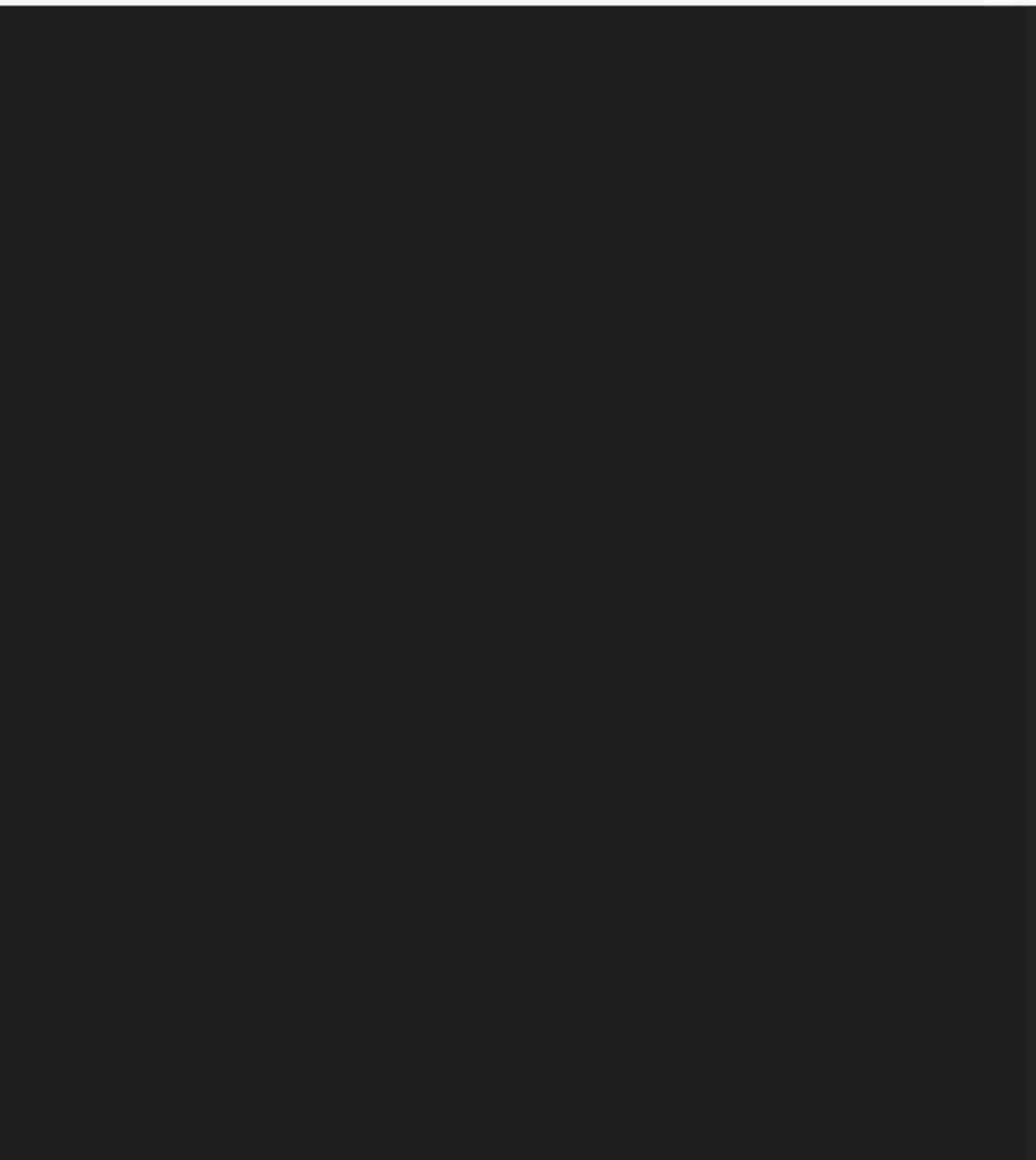
12 (-1 +) 1

16 -7 + =>(9)



2 · Asked by Subhadeep

Sir mai abhi second year mai hu mera sirf c programming hua hai aur data structure apse kar raha hu to mai kab se test dena start kar sakta hu ?? 2026 aspirnt









THANK YOU!

Here's to a cracking journey ahead!