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# MADE EASY COMPUTER SCIENCE

Topper Handwritten Notes
PROGRAMMING AND DATA STRUCTURES
BY-BALA JI SIR

- Theory
- Explanation
- Derivation
- Example
- Shortcuts
- Previous Years Ouestion With Solution

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and Data structures -

Aug marks -13 marks

### I. Perogramming

- · Basic Coperators, loops, smitch, function)
- · Storage dasses, scope
- · pointers, strings
- Arrays
- · structures, unions
- · heursion
- · Dynamic memory allocation

#### Data Structures

- · Linked lists
- · stack
- · guin

- THUS (BST, AVL)

- > pointer to pointer
- > painter to array:
- -> asuray of paintan
- politicu to struing Miltidinentional aurage pointer to function,

Reference

Text Books -

language

by Dennis Ritche

Test your aptitude

by Venugopal

and N. Chandra Kantt

D.S. by mark Allen Weiss

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## I- PROGRAMMING

•	•			
Operator	precedance	associativity		
()	1 inigh)	L →R		
<b>↑</b>	2	R→L		
* / /.	<b>3</b>	L →R	. ·	
+ -	<b>y</b>	L -> R		
=	5 (Low)	$R \rightarrow L$		
			102	
Associativit	: If two	on mon open	atoral ou	having
same prec associativit	edance turn q	or more open	Swalland	using
Enpussio	m	Reside:		
5/2		52	NOTE:	
5.0/2	LAP!	2.5	If both are	integer
5.0/2.0		<b>2</b> ·5	then op w	ill be

2.0/5 2.0/5.0 0.4

if any one is float

Enpulsion	assigned to int	assigned t	to float
5	5	5.0	
5.0	5	5.0	
5/2	2	2.0	
5.0/2	2	<b>°</b>	
5.0/2.0	2	2.5	
215	0	, O.0	·
2.0/5	6	0.4	
2.0/5.0	. 0	<b>\</b> A.4	
		101	·. ·
helational and	Moical annatan	N'	-
	logical operators:	601	
All the vulation	onal and logical ion is true =>	Peratore vetus	ים אמין גאנ
If the enpued	ion is true =	aturns 1	
_	'% #		
<b>0</b> {	MAN A MININE BY	<b>. L</b> .	
	ion is false to ve	•	Secretary Control on the
· All non-zero	· · · · · · · · · · · · · · · · · · ·	thun and se	no is consider
	· · · · · · · · · · · · · · · · · · ·	tuu	no is consider
All non-zono as false	is considered as	tuu	no is consider FALSE
All non-zono as false	· · · · · · · · · · · · · · · · · · ·	there and ze	
All non-zero as false  i) $a = 5 > 4$ True	is considered as	there and se	FALSE
All non-zero as false  i) $\alpha = 5 > 4$ Taue  ii) $\alpha = (5 > 4) + 4$	is considered as $Q = 1$ $Q = 1$ $Q = 1$ $Q = 2$	there and se	FALSE
All non-zono  as false  i) $a = 5 > 4$ True  ii) $a = (5 > 4) + 6$ True	is considered as $Q = 1$ $Q = 2$ $Q = 2$ $Q = 2$ $Q = 2$	TRUE	FALSE 0 0.0
All non-zono $\alpha$ false $\alpha$ false $\alpha$	is considered as $Q = 1$ $Q = 2$ $Q = 2$ $Q = 2$ $Q = 2$	TRUE  -10 20 1.5	FALSE O OO OO
All non-zono  as false  i) $a = 5 > 4$ True  ii) $a = (5 > 4) + 6$ True	is considered as $Q = 1$ $Q = 1$ $Q = 1$ $Q = 1$ $Q = 2$ $Q = 2$ $Q = 2$	TRUE -10 20 1.5 -0.6	FALSE O OO OO
All non-zono  as false  i) $a = 5 > 4$ TRUE  iii) $a = (5 > 4) + 6$ TRUE	is considered as $Q = 1$ $Q = 1$ $Q = 1$ $Q = 1$ $Q = 2$ $Q = 2$ $Q = 2$	TRUE -10 20 1.5 -0.6	FALSE O OO OO
All non-zono  a false  ii) $a = 5 > 4$ TRUE  iii) $a = (5 > 4) + 6$ TRUE $= 1 > 3$ false	is considered as $a=1$ $C(3>2) \Rightarrow a=2$ $TRUE$ $3; \Rightarrow a=0$	TRUE -10 20 1.5 -0.6	FALSE O OO OO
All non-zono  as false  i) $a = 5 > 4$ True  ii) $a = (5 > 4) + 6$ True $= 1 > 3$	is considered as $a=1$ $C(3>2) \Rightarrow a=2$ $TRUE$ $3; \Rightarrow a=0$	TRUE -10 20 1.5 -0.6	FALSE O OO OO
All non-zono  a false  ii) $a = 5 > 4$ TRUE  iii) $a = (5 > 4) + 6$ TRUE $= 1 > 3$ false	is considered as $a=1$ $C(3>2) \Rightarrow a=2$ $TRUE$ $3; \Rightarrow a=0$	TRUE -10 20 1.5 -0.6	FALSE O OO OO

9

(**3** 

iv. -15% -7= -1  $V = -15.5 \ /. + 7 = even$  $Vii = -7 \ /. + 15 = -7$ 

vi. +15.5 % -7 = evrox

#### NOTE -

- · modulus always gives numerator sign.
- · modulus doesn't work on foat values. It works only on integers
- · If the value is small without sign, then it gives the same value as the O/p.

ii. int 
$$a = 2 + 8/4 + 2.0/5 + 3/5$$
  
int  $b = 2.4$  then  $a = 2$   
Assist ["'.d.", a) = 2

puintf (" /d", a);

Opp: Hulos NOTE -

Assignment operator assigns the value and outurns assigned value