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Subject: **Data Structures CS301** Test: Midterm past Paper questions **Total Questions:** Ques tion No. Total Mark s **Question Details** ddd ddd dfdfdf dfd fdfdf 1 Deleting a leaf node in binary search tree involves setting pointer/ s of that node's parent as null. 1 2 3 4

1	3	A node
		cannot
		be
		delete
		when
		the
		node
		be
		delete
		has
		both I
		and
		right
		subtre
		S.
		True
		False
1	4	An ar
		is a
		group
		conse
		tive
		relate
		memo
		locations.
		True
		False



expressi 5 * 6 – 7 equivale expressi on(s) for



differen between a binary tree and a binary tree has

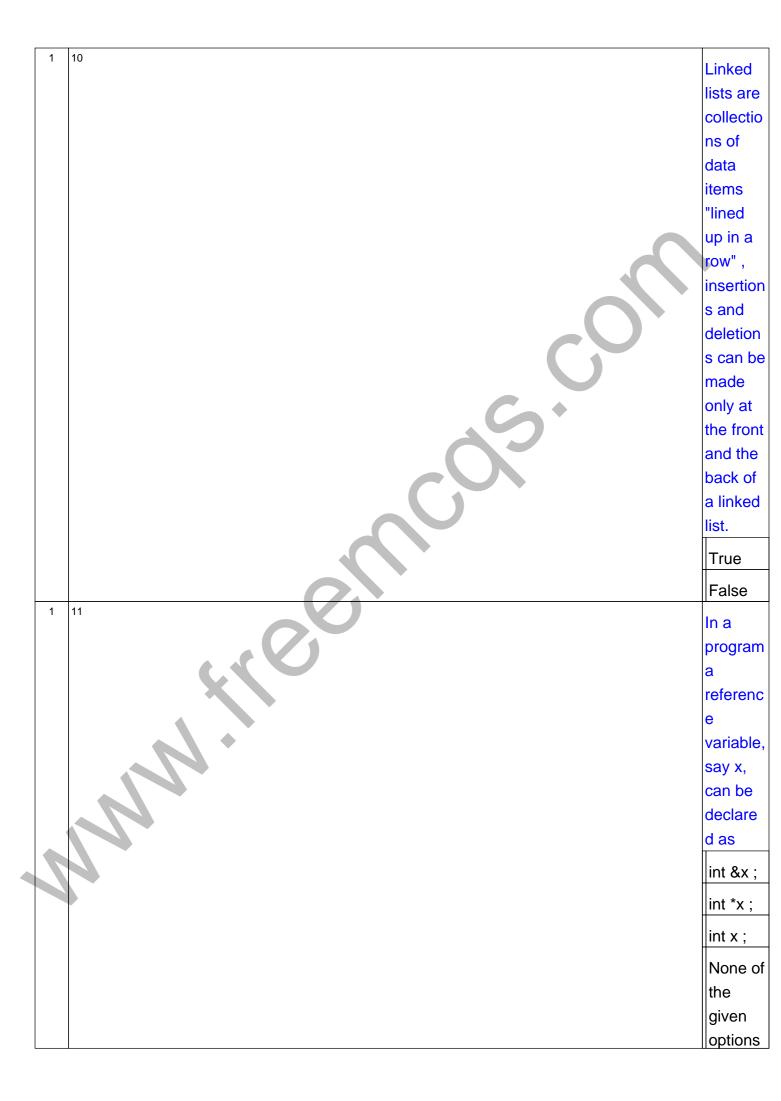
children wherea children

search inserted contain

	IIIn
	in binary
	tree
	nodes
	are
	inserted
	based
	on the
	values
	they
	contain
	none of
	these
1 7	We can
	add
	element
	s in
	QUEUE
	From
	1
	Front
	Rear
	From
	Both
	Rare
	and
	Front
	None of
	these





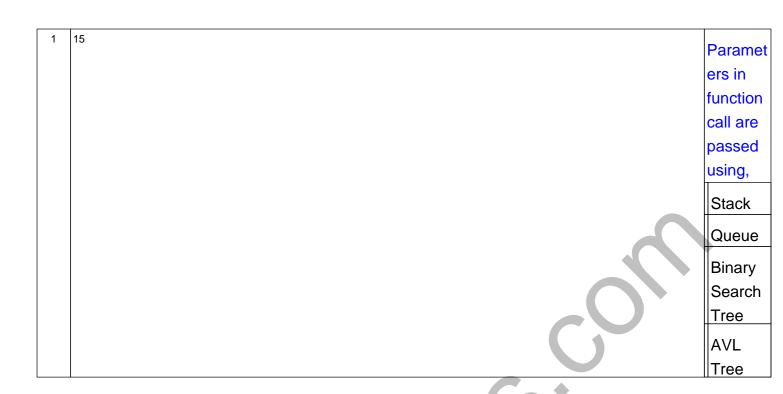




element



1	13	
!		ls a
		data
		structur
		e that
		can
		grow
		easily
		dynamic
		ally at
		run time
		without
		having
		to copy
		existing
		element
		s?
		Array
		List
		Both of
		these
		None of
		these
1	14	Queue
		follows
		Last in
		First
		out
		First in
		Last out
		First in
		First
1		out
		None of
		these





stateme nt of the followin stateme incorrec

Stack is deletion place at

	П
	Stacks
	are
	easier
	to
	implem ent
	than
	lists
1 17	The
	operatio
	n for
	removin
	g an
	entry
	from a stack is
	tradition
	ally
	called:
	delete
	peek
	pop
	remove





1	20	
		The tree
		data
		structur
		e is a
		Linear
		data
		structur
		е
		Non-
		linear
		data
		structur
		e
		Graphic
		al data
		structur
		е
		Data
		structur
		e like
1	21	queue
'		Which
		one of
		the
		followin
		g is a
		valid
		postfix
		expressi
		on?
,		ab+c*d-
7		abc*+d-
		abc+*d-
		(abc*)+
		d-

1	22	When
		an
		operator
		is used
		in
		between
		two
		operand
		s this is
		which
		type of
		notation
		Prefix
		Postfix
		Infix
		None of
		the
		Above
1	23	What
		will be
		the valid
		postfix
		notation
		of
		A+B*C-
		D
	*	ABC+*
		D-
		ABC*+
		D-
		ABCD+
		_*
		AB+D*
		С

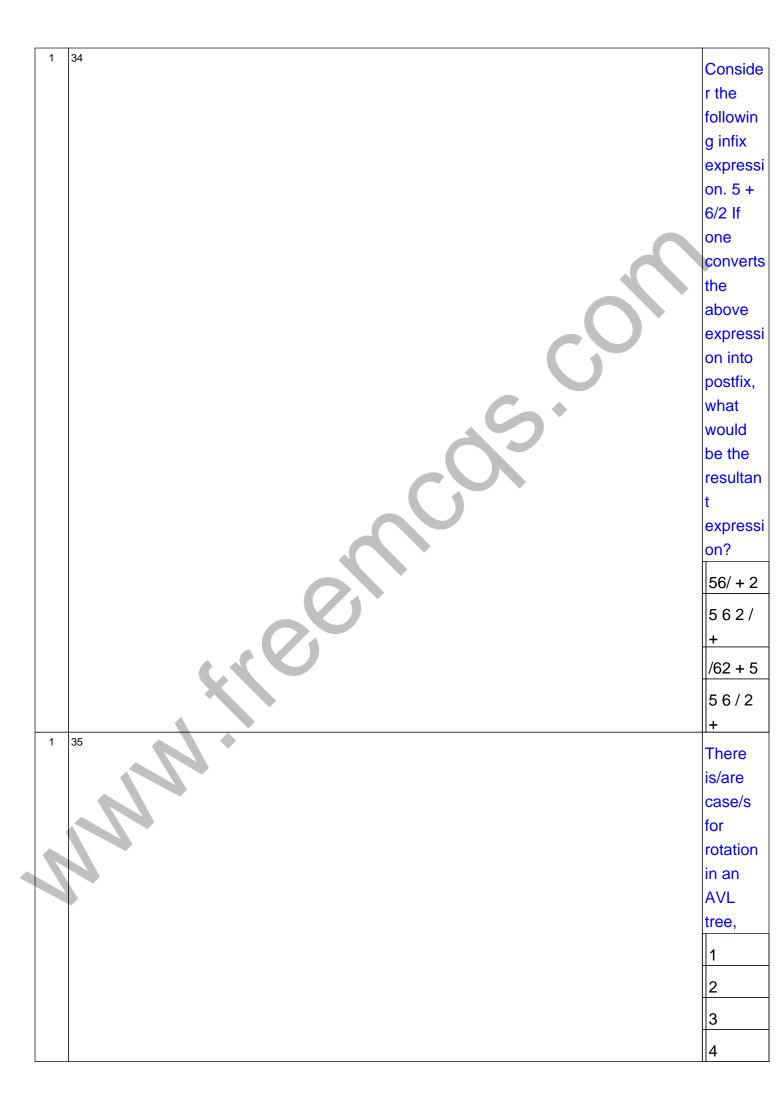
1	24	
'		Tree
		data
		structur
		e is a
		Linear
		Non
		Linear
		Circular
		None of
		Above
1	25	Non
		recursiv
		e calls
		are
		faster
		than the
		Recursi
		ve calls.
		True
		False
1	26	Followin
		g are
		the
		linear
		data
		structur
		es:-
		Stacks
		Queues
		Both
		Stacks
		and
		Queues
		None of
		the above
		llabove

				Highe Opera rs Prece nce is the follow g opera
				rs Prece nce is the follow g opera
				Prece nce is the follow g opera
				nce is the follow g opera
				the follow g opera
				follow g opera
				g opera
				opera
				<u>:-</u>
				Plus
				Minus
				Multip
			*	Expo
				ntiatio
				Each
			•	node
				a BST
				has
				Pointe
		•		:-
				1
	, (/)			2
8				3
				4



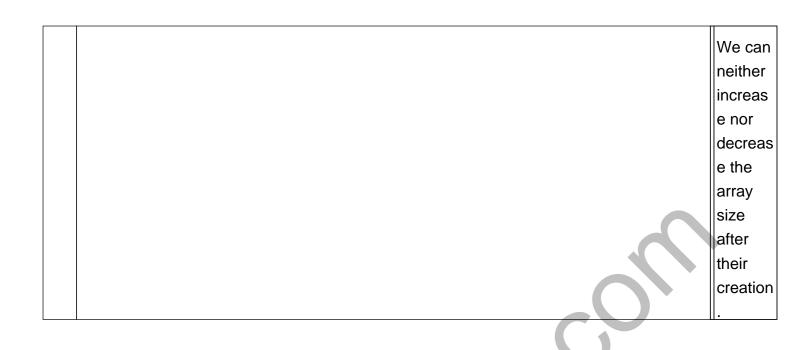
1	30	BST is a Structur e:-
		Linear
		Non
		Linear
		Circula
		None o Above
1	31	То
		check
		the
		depth of
		an AVL
		tree
		followin
		g time
		will be taken:-
		1.66
		Log2n
		1.44 Log2n
		Log2
		(n+1)-1
		1.66
		Log2n

1	32	
		In an
		AVL
		tree to
		delete a
		parent
		with two
		childs in
		a
		straight
		line followin
		g rotation
		s will be
		required
		Single
		Double
		Triple
		None.of
		the
		given
1	33	options
'		Which
		of the
		followin
		g is a
		non
		linear
		data
		structur
		e?
8		Linked
1		List
		Stack
		Queue
		Tree























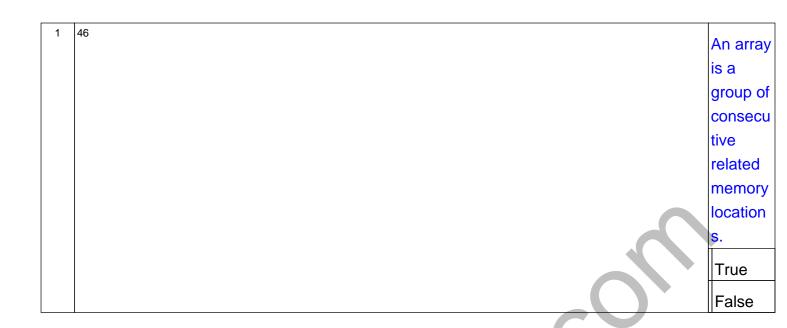
AVL Tree size can be change d after its creation



g calling

None of

	Call by
	Call by passing
	the
	address
	of the
	argume
	nt
1 44	In an
	array list
	the
	current
	element
	is
	The
	first
	element
	The
	middle
	element
	The last
	element
	The
	element
	where
	the
	current pointer
	points
	to
1 45	In an
	array
	we can
	store
	data
	element
	s of
	different
	types.
	True
	False



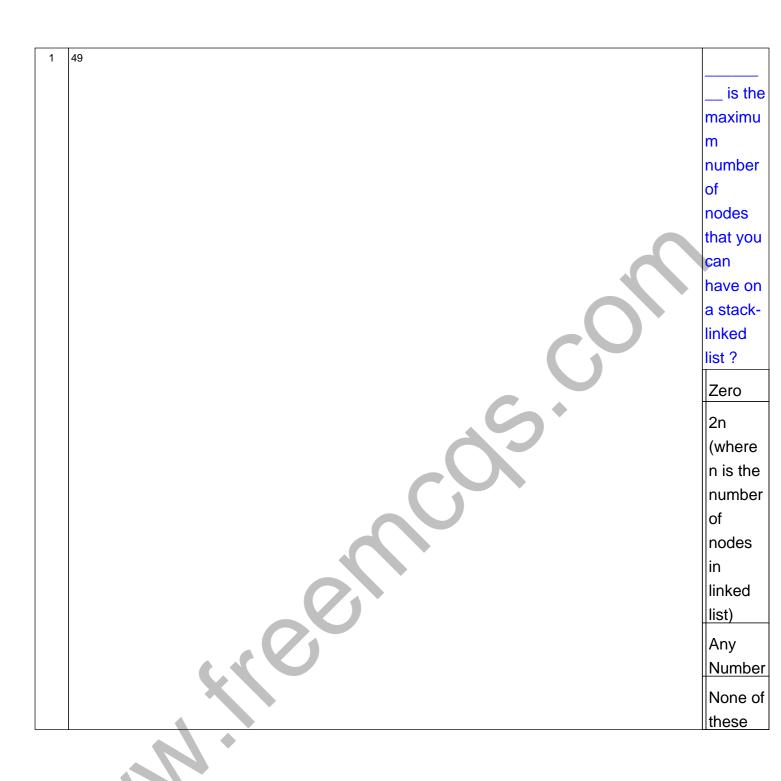




followin stateme related queues. last item queue is the first remove queue is structur are not used (iii) The last element hasn't to until all element precedi ng it on









			The oper n for remo
			n for remo
			remo g an entry from
			g an entry from
			entry from
			from
			stac
			tradi
			ally
			calle
			dele
			pee
		G +	pop
			rem
			The
			oper
			n for
			addi
			an e
			to a
			stac
			tradi
2.3			ally
			calle
	,		add
*			арр
11.2			
			inse
			pus



what is operatio you can not do primitive

Assign a value primitiv e type using a

Declare primitiv e types constan t using keywor

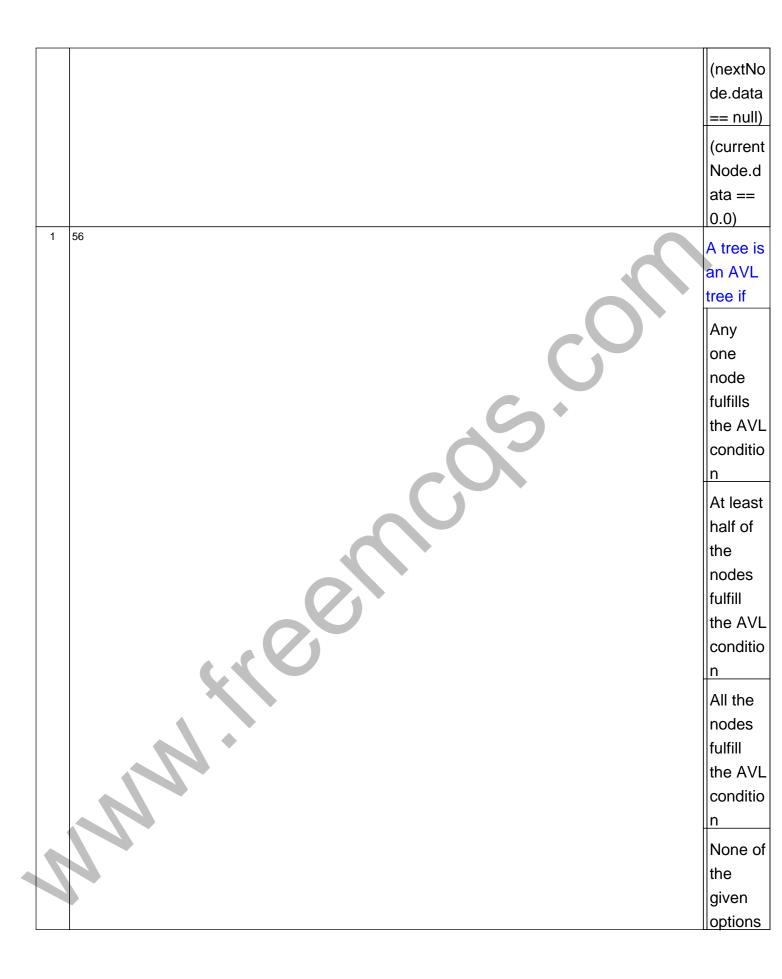
instanc primitiv keywor

None of



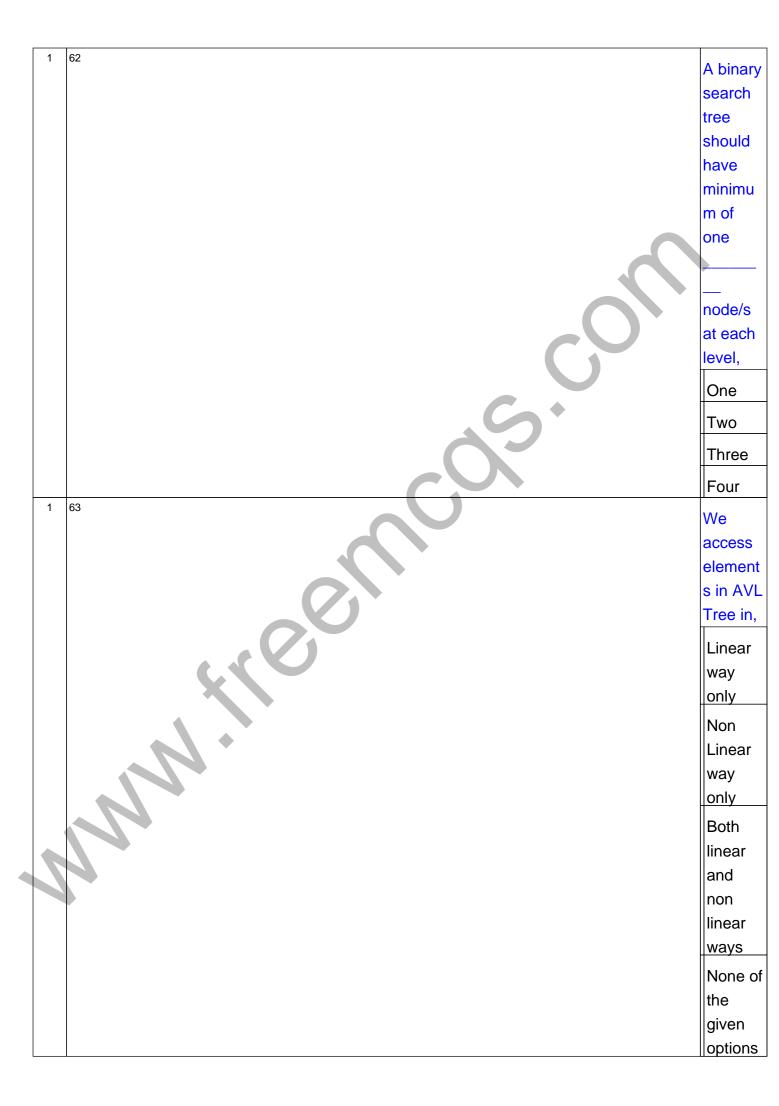


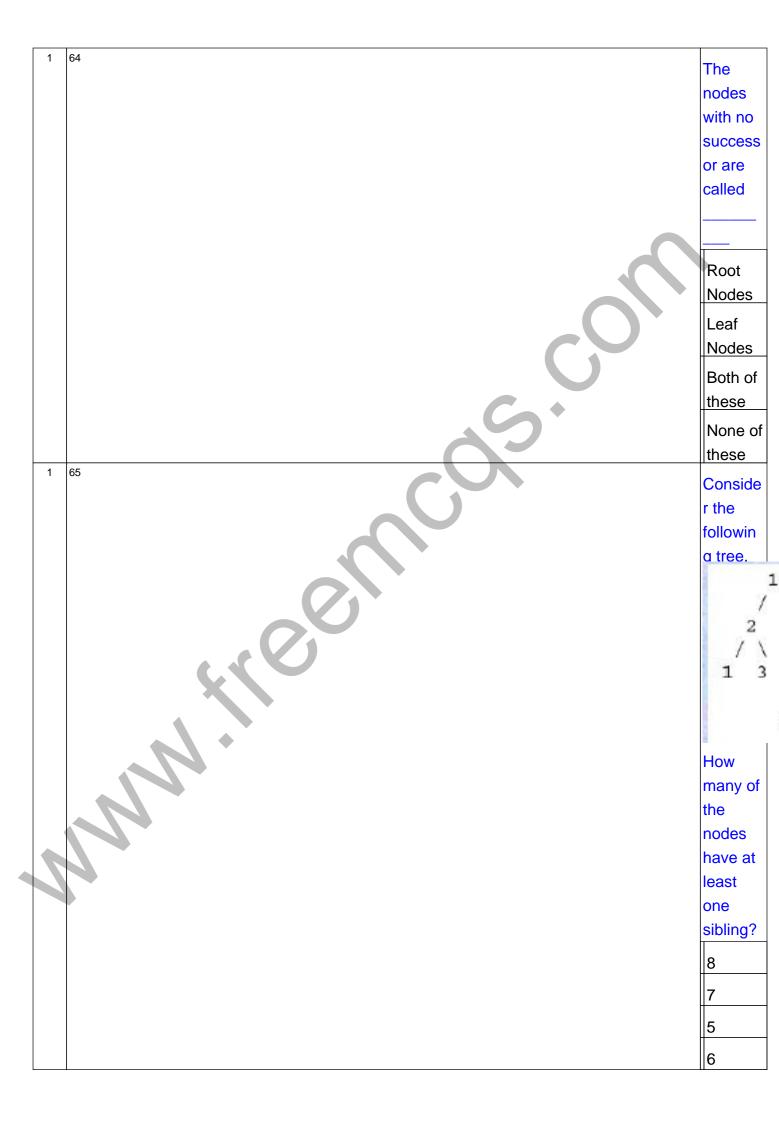






1	59	
		Α
		subscri
		t of an
		array
		may be
		an
		integer
		or an integer
		expres
		on.
		True
1	60	False
'		"+" is a
		ope
		ator.
		Not an
		Unary
		Binary
1	61	Ternar
		"+" is a
		ope
		Not ar
		Unary
		Binary
		Ternai



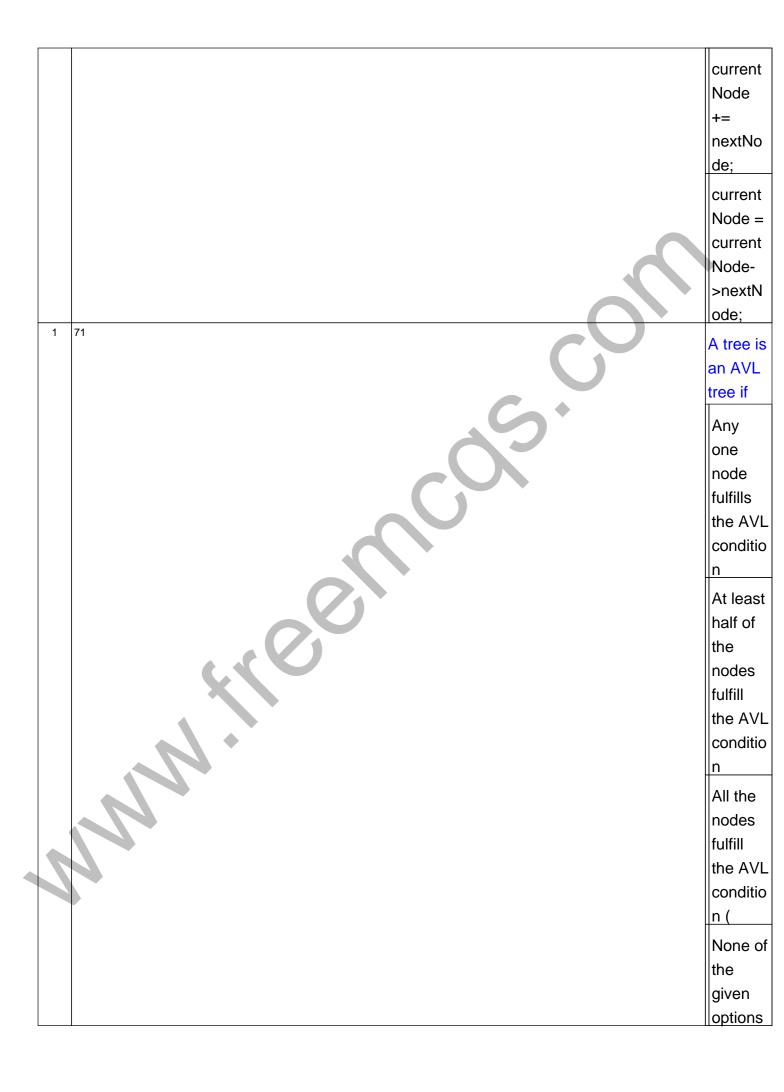




impleme nted the of these pointers insertion

1	67	
		Each
		node in
		doubly
		link list
		has,
		1
		pointer
		2
		pointer
		3
		pointer
		4
1	68	pointer
!		Which
		one is a
		self-
		referenti
		al data
		type?
		Stack
		Queue
		Link list
		All of
		these
1	69	A queue
		where
		the de-
		queue
		operatio
		n
		depend s not on
		FIFO, is
		called a
		priority
		queue
		False
		True





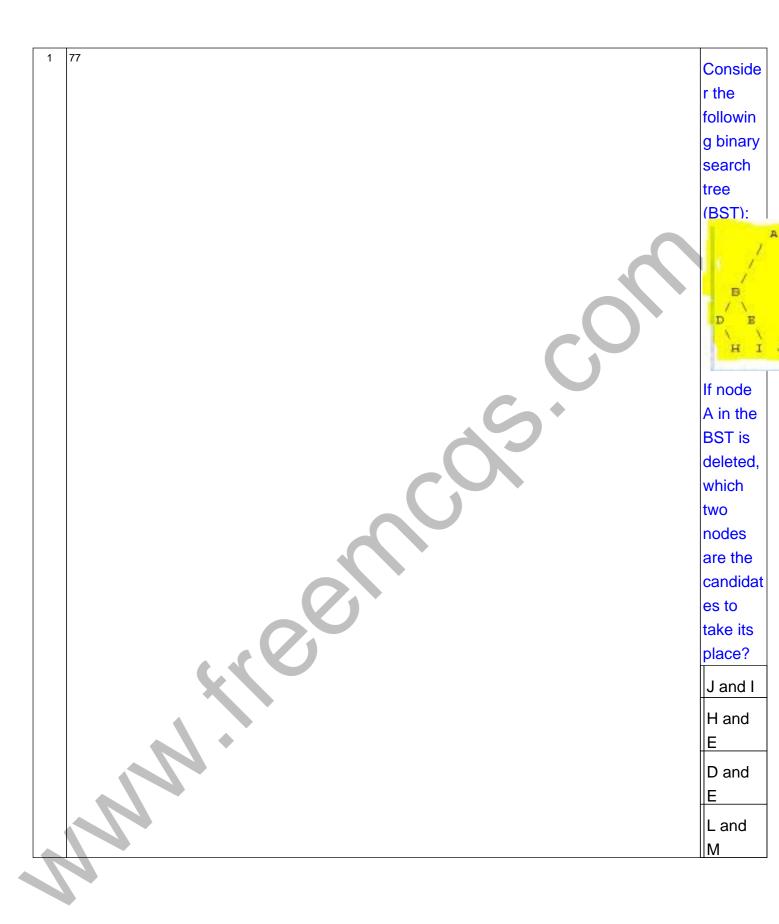


			Call by passing
			the
			address
			of the
			argume
	4		nt
	1	73	Each
			operator
			in a
			postfix expressi
			on
			refers to
			the
			previous
			— operand
			(s).
			One
			Two
			Three
[Four
	1		



		In an
		array
		the element
		s are
		contigu
		ous
1	75	AVL
		Tree is,
		Non
		Linear
		data
		structur
	C	e
		Linear
		data structur
		е
		Hybrid
		data
		structur
		е
		(Mixtur
		e of
		Linear
		and
		Non Linear)
		None of the
		given
		options.
1		







subtree contains equal to subtree contains that are

		AVL tree
		these
1	79	The
		expres
		on
		AB+C
		is
		called
		Prefix
		expre
		ion
		Postfi
		expre
		ion
		Infix
		expre
		ion
		None
		these



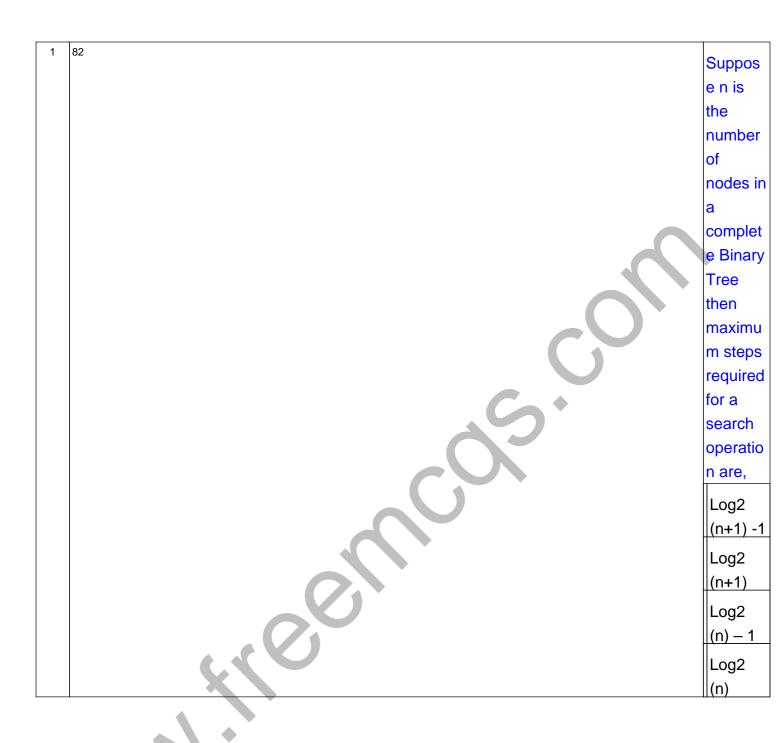
impleme with ten through data[11] **CAPACI** member function

	data[1]
	data[2]
	data[11
]
	data[12
	1





impleme member entry on











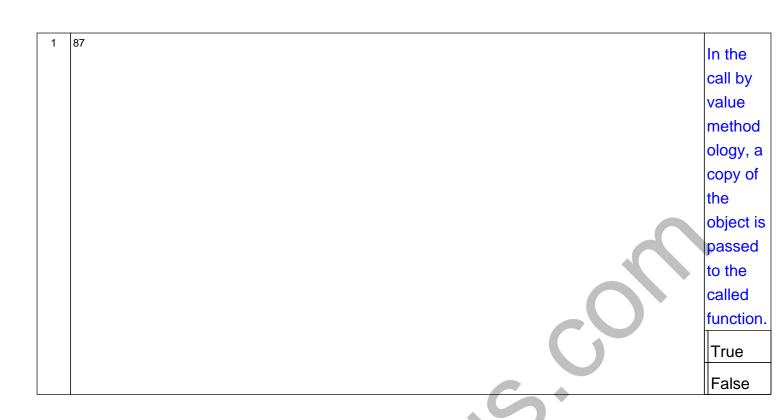
variable s of the activate function

function membe variable s of the activate function













1	90	A queue
		where
		the de-
		queue
		operatio
		n
		depend
		s not on
		FIFO, is
		called a
		priority
		queue
		True
		False
1	91	No Question Found
		No option found!
		No option found!

Signature:

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