

Subject: Data Structures CS301
 Test: Midterm past Paper questions
 Total Questions: 91

Question No.		Question Details				Total Marks	
1		<input checked="" type="checkbox"/>				ddd	
		dfdfdf					
						ddd	
						ddd	
						dfdf	
						df	
						df	f
		d	d	f	d	f	
1		2				<input checked="" type="checkbox"/> 1	
2							

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	<input type="checkbox"/>	True
---	---	--------------------------	------

False

	A node cannot be deleted, when the node to be deleted has both left and right subtrees.	1
	True	
	False	

4	<input checked="" type="checkbox"/>	True
---	-------------------------------------	------

False

An array is a group of consecutive related memory locations.

1

True

False

5

☐

3 6 5 + *
7 5 8 + -
*

3 6 5 7 5 8 + * + - *

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$$356 + *785 + - *$$

Consider the following infix expression: $3 + 5 * 6 - 7 * (8 + 5)$ Which of the following is a correct equivalent expression(s) for the above?

3 6
5 +
* 7
5 8
+ -
*

3 6
5 7
5 8
+ *
+ -
*

3	3
5	5
6	6
+	*
*	+
7	7
8	8
5	5
+	+
-	*
*	-

1	6	<input type="checkbox"/> <div> two chil dre n per nod e wh ere as a bin ary tree can hav e non e, one , or two chil dre n per nod e </div>
in binary search tree nodes are inserted based on the values they contain		

in binary tree nodes are inserted based on the values they contain

The difference between a binary tree and a binary search tree is that, a binary search tree has

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two
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nod
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wh
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as
a
bin
ary
tree
can
hav
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non
e,
one
, or
two
chil
dre
n
per
nod
e

in
bin
ary
sea
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nod
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in	n
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n	n
ar	e
y	o
tr	f
e	t
e	h
n	e
o	s
d	e
e	s
ar	are
e	in
in	s
er	er
te	te
d	d
b	b
a	a
s	s
e	e
d	d
o	o
n	n
th	th
e	e
v	v
al	al
u	u
e	e
s	s
th	th
e	e
y	y
c	c
o	o
nt	nt
ai	ai
n	n

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1	7	<input type="checkbox"/>	Front
Rear			
From Both Rare and Front			<div>We can add elements in QU E From</div> <div>Front</div> <div>Rear</div> <div>From Both Rare and Front</div>
1	8	<input type="checkbox"/>	short
Int			

float

Which of the following abstract data types are NOT used by Integer Abstract Data type group?

short

Int

float	long
-------	------

1	9	<input checked="" type="checkbox"/>	Array size is fixed once it is created
Link List size is fixed once it is created			

Binary Search Tree size is fixed once it is created

Which one of the following statements is correct?

Array size is fixed once it is created

Link List size is fixed once it is created

				<div>Bi n ar y S e ar c h T re e si z e is fi x e d o n c e i t i s cr e at e a d t e d</div>
1	10	<div><input type="checkbox"/></div>		True
False				
	Linked lists are collections of data items "lined up in a row" , insertions and deletions can be made only at the front and the back of a linked list.			1
	True			
	False			

11



int &x ;

int *x ;

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int x ;

In a program a reference variable, say x, can be declared as

int &x ;

int *x ;

		in t x ;	N o n e o f t h e g i v e n o p t i o n s
1	12	<div> <input checked="" type="checkbox"/> In link ed list the ele me nts are nec ess aril y to be con tigu ous </div>	

In linked list the elements may locate at far positions in the memory

In linked list each element also has the address of the element next to it

Which one of the following statement is NOT correct .

In linked list the elements are necessarily to be contiguous

In
link
ed
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at
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pos
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in
the
memory

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In	I
li	n
n	a
k	n
e	a
d	r
li	r
st	a
e	y
a	t
c	h
h	e
e	e
e	I
m	e
e	m
nt	e
al	n
s	t
o	s
h	a
a	r
s	e
th	c
e	o
a	n
d	t
dr	i
e	g
s	u
s	o
of	u
th	s
e	
el	
e	
m	
e	
nt	
n	
e	
xt	

		to	
1	13	<input type="checkbox"/>	Array
List			

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Both of these

Is a data structure that can grow easily dynamically at runtime without having to copy existing elements?

Array

List

		B o t h o f t h e s e		N o n o f t h e s e	
1	14				<input type="checkbox"/> Last in First out
First in Last out					

First in First out

Queue follows

Last in First out

First in Last out

First in First out
Non FIFO
Not in FIFO

1 15



Stack

Queue

Binary Search Tree

Parameters in function call are passed using,

Stack

Queue

Binary Search Tree	AVL Tree
--------------------	----------

1	16	<input type="checkbox"/>	Lists can be implemented by using arrays or linked lists
A list is a sequence of one or more data items			

Stack is a special kind of list in which all insertions and deletions take place at one end

Which statement of the following statements is incorrect?

Lists can be implemented by using arrays or linked lists

A list is a sequence of one or more data items

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S	S
ta	ta
c	c
k	k
is	is
a	a
s	s
a	a
pr	pr
e	e
ci	ci
al	al
ki	ki
n	n
d	d
of	of
li	li
st	st
in	in
w	w
hi	hi
c	c
h	h
al	al
I	I
in	in
s	s
er	er
ti	ti
o	o
n	n
s	s
a	a
n	n
d	d
d	d
el	el
et	et
io	io
n	n
s	s
ta	ta
k	k

		e pl a c e at o n e e n d	
1	17	<input type="checkbox"/>	del ete
peek			

pop

The operation for removing an entry from a stack is traditionally called:

delete

peek

p	r
o	e
p	m
	o
	v
	e

1	18	<input type="checkbox"/>	That pointer points to First byte in main function
That pointer contains a NULL value			

That pointer points to any memory address

Suppose a pointer has been declared in main but has not assigned any variable address then

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That pointer points to First byte in main function

That pointer contains a NULL value

		That pointer points to any memory address	
1	19	<input checked="" type="checkbox"/>	Arrays
LinkLists			

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A Compound Data Structure is the data structure which can have multiple data items of same type or of different types. Which

of the following can be considered compound data structure?

Arrays

LinkedLists

		Binary Search Trees		Applications
1	20			<input type="checkbox"/> Linear data structure
Non-linear data structure				

Graphical data structure

The tree data structure is a

Linear data structure

Non-linear data structure

		G D ra a p t hi a c s al t d r at u a c st t ru u ct r ur e e li k e q u e u e	
1	21	<div><input type="checkbox"/></div> <div>ab+ c*d -</div>	
abc*+d-			

abc+*d-

Which one of the following is a valid postfix expression?

ab+
c*d
-

abc
*+d
-

a	(
b	a
c	b
+	c
*	*
d-)
	+
	d
	-

122

☐ Prefix

Postfix

Infix

When an operator is used between two operands this is which type of notation

Prefix

Postfix

		In fi x	N o n e o f t h e A b o v e
1	23	<input type="checkbox"/>	AB C+* D-
ABC*+D-			

ABCD+-*

What will be the valid postfix notation of A+ B* C- D

AB C+* D-

AB C*+ D-

A	A
B	B
C	+
D	D
+-	*
*	C

1	24	<input type="checkbox"/>	Linear
---	----	--------------------------	--------

Non Linear

Circular

Tree data structure is a

Linear

Non Linear

Comparison of Above

1 25



True

False

Non recursive calls are faster than the Recursive calls.

1

True

False

26

☐

Stacks

Queues

Both Stacks and Queues

Following are the linear data structures:-

Stacks

Queues

Both of these are abstract data types. They are used to store data in a linear fashion. Stacks are used to store data in a Last In First Out (LIFO) manner. Queues are used to store data in a First In First Out (FIFO) manner.

1 27

☐

Plus

Minus

Multiply

Highest Operator Precedence is of the following operator:-

Plus

Minus

Multiplication

1	28	<input type="checkbox"/>	1
---	----	--------------------------	---

2

3

Each node in a BST has Pointer S:-

1

2

3

4

1

29



Size can be increased but can not be decreased.

Size can be decreased but can not be increased.

Size can neither be increased nor be decreased.

After creation of an array:-

Size can be increased but can not be decreased.

Size can be decreased but can not be increased.

Size can be increased or decreased. Size can be increased or decreased.

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1	30	<input type="checkbox"/>	Linear
Non Linear			

Circular

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Lin
ear

No
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Lin
ear

C
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N
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c
o
n
f
o
r
m
a
t
i
o
n
a
b
o
v
e

1 31



1.6
6
Log
2n

1.44 Log2n

$\log_2(n+1)-1$

To check the depth of an AVL tree following time will be taken:-

$1.66 \log_2 n$

$1.44 \log_2 n$

		L o g 2 (n + 1) -1		1 . 6 6 L o g 2 n (n + 1)	
1	32				<input type="checkbox"/> Single
Double					

Triple

In an AVL tree to delete a parent with two children in a straight line following rotations will be required

Single

Double

		T r i p l e		N o n e . o f t h e g i v e n o p t i o n s	
1	33				<input type="checkbox"/> Lin ked List
Stack					

Queue

Which of the following is a non linear data structure?

Linked List

Stack

Queue

1 34



56/
+ 2

5 6 2 / +

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Consider the following infix expression. 5 + 6/2 If one converts the above expression into postfix, what would be the resultant expression

		n?	
		56/ + 2	
		5 6 2 / +	
		/6	5
		2	6
		+	/
		5	2
			+
1	35	<input type="checkbox"/>	1
2			
3		The	
		re	
		is/a	
		re	
		cas	
		e/s	
		for	
		rota	
		tion	
		in	
		an	
		AV	
		L	
		tree	
		,	
		1	
		2	
		3	4

1	36	<input type="checkbox"/>	Log 2(n +1) tim e (wh ere n is no. of nod es
Log2(n+1) -1			

1.44 Log2n

Searching an element in an AVL tree take maximum in AVL tree ,

Log₂(n+1) time (where n is no. of nodes

Log₂(n+1)-1

		1. 1
		4 .
		4 6
		L 6
		o L
		g o
		2 g
		n 2
		n
1	37	<input type="checkbox"/> We can increase the size of arrays after their creation.
We can decrease the size of arrays after their creation.		

We can increase but can't decrease the size of arrays after their creation.

Which of the following is "TRUE" about arrays ,

We can increase the size of arrays after their creation.

We can decrease the size of arrays after their creation.

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W	w
e	e
c	c
a	a
n	n
i	n
n	e
c	r
r	e
e	i
a	t
s	h
e	e
b	r
u	i
t	c
c	n
a	c
n'	r
t	e
d	a
e	s
cr	e
e	n
a	o
s	r
e	d
th	e
e	c
si	r
z	e
e	a
of	s
ar	e
ra	t
y	h
s	e
af	a
te	r
r	r
th	a
ei	y
r	s
cr	i
e	z

		at e io a n. f t e r t h e i r c r e a t i o n .
1	38	<div> <input type="checkbox"/> </div> <div> Trees are recursively defined multidimensional data structures </div>
The order of a tree indicates a maximum number of children allowed at each node of the		

A search tree is a special type of tree where all values (i.e. keys) are ordered

Four statements about trees are below. Three of them are correct. Which one is INCORRECT?

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The order of a tree indicates a maximum number of children allowed at each node of the

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A	I
s	f
e	T
a	r
r	c
c	h
h	t
t	r
r	e
e	'
s	s
i	s
a	i
s	z
p	e
e	i
c	s
i	g
a	r
l	p
y	e
p	a
e	t
o	r
f	e
t	r
r	e
e	t
w	h
h	a
e	n
T	r
a	e
r	2
u	'
e	s
s	s
(i.	i
e.	z
k	e
e	,
y	t
s)	h
a	r
e	n

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Plus operator

Which one of the following operators has higher priority than all of others?

Multiplication operator

Minus operator

		Pluxp operator initiation operator	
1	40	<input checked="" type="checkbox"/>	FIFO, LIFO
LIFO,FIFO			

both given options

A queue is a linear data structure, whereas a stack is a non-linear data structure.

FIFO, LIFO

LIFO, FIFO

			b ot h gi v e n o pt io n s	N o n e f t h e s e
1	41		<input type="checkbox"/>	if (alp ha < bet a)
if (alpha.LessThan(beta))				

if (LessThan(alpha, beta))

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Suppose that the class declaration of SomeClass includes the following function prototype. bool LessThan(SomeClass and otherObject);

Which of the following tests in the client code correctly compares two class objects alpha and beta?

if (alpha < beta)

if
(alpha.
Less
than(
beta
a))

if (Less than(alpha, beta))	i f (L e s s T h a n (a l p h a , b e t a)) . b e t a)
--	--

1	42	<input checked="" type="checkbox"/>	Array size can be changed after its creation.
Link List size can be changed after its creation			

Binary Search Tree size can be changed after its creation

Which one of the following statements is NOT correct?

Array size can be changed after its creation.

Link List size can be changed after its creation

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Bi	Ar	Yearly	Secondary	Research	h	T	re	e	si	z	e	c	a	n	b	e	c	a	n	b	e	c	h	a	n	g	e	d	a	f	t	e	r	i	t	s	c	r	e	a	t	i	o	n
----	----	--------	-----------	----------	---	---	----	---	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

1	43	<input type="checkbox"/>	No ne of the giv en opti ons
Call by passing the value of the argument			

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Call by passing reference of the argument

Which one of the following calling methods does not change the original value of the argument in the calling function?

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No
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Call
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		C al l b y p a s s i n g r e f e r e n c e o f t h e a r g u m e n t		C al l b y p a s s i n g r e f e r e n c e o f t h e a r g u m e n t	
1	44			<input checked="" type="checkbox"/>	The first element
The middle element					

The last element

In an array list the current element is

The first element

The middle element

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False		
	In an array we can store data elements of different types.	1
	True	
	False	
46	<input checked="" type="checkbox"/>	True
False		
	An array is a group of consecutive related memory locations.	1
	True	
	False	
47	<input type="checkbox"/>	(iii) and (ii) only
(i), (ii) and (iv) only		

(ii) and (iv) only

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The following are statements related to queues . (i) The last item to be added to a queue is the first item to be removed (ii) A queue is a stru

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use
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(iii)
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A

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queue is said to be a last-in-first-out list or LIFO data structure. Which of the above is/are related to normal queues?

(iii) and (ii) only

		(i), (ii) and (iv) only	(ii)) a n d (i v) o n l y	N o n e o f t h e g i v e n o p t i o n s
1	48			<input checked="" type="checkbox"/> Stack
Queue				

Both of these

Which of the following can be used to reverse a string value,

Stack

Queue

Both of these

☐ Zero

2n (where n is the number of nodes in linked list)

Any Number

is the maximum number of nodes that you can have on a stack-linked list?

Zero

		<div> <div> 2n (where n is the number of nodes in linked list) </div> <div> Any Number of these </div> </div>	
1	50	<input checked="" type="checkbox"/>	7 8 9 10 11 12
9 8 11 10 7 12			

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Consider the following sequence of push operations in a stack: stack.push('7'); stack.push('8'); stack.push('9'); stack.push('10'); stack.push

		h('11'); stack.push('12');	
		7 8	
		9	
		10	
		11	
		12	
		9 8	
		11	
		10	
		7	
		12	
		9	9
		1	1
		0	0
		8	8
		1	1
		1	2
		1	7
		2	1
		7	1
1	51	<input type="checkbox"/>	delete
peek			

pop

The operation for removing an entry from a stack is traditionally called:

delete

peek

promove

152

☐ add

append

insert

The operation for adding an entry to a stack is traditionally called :

add

append

in	p
s	u
er	s
t	h

1	53	<input type="checkbox"/>	Assign a value to primitive type using a literal
Declare primitive types to be constant using the Const keyword			

Create a new instance of primitive type with New keyword

In C what is the operation that you can not do with primitive types?

Assign a value to primitive type using a literal

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		C re a n e t w i n s t a n c e o f p r i m i t i v e t y p e w i t h N e w k e y w o r d		N o n o f t h e s e	
1	54			<input type="checkbox"/>	if (alp ha < bet a)

if (alpha.LessThan(beta))

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if (LessThan(alpha, beta))

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Suppose that the class declaration of SomeClass includes the following function prototype. bool LessThan(SomeClass and otherObject);

Which of the following tests in the client code correctly compares two class objects alpha and beta?

if (alpha < beta)

		if (alpha.LessThan(beta))		if (alpha.LessThan(beta))
1	55			<input checked="" type="checkbox"/> (currentNode == null)
(currentNode->nextNode == null)				

(nextNode.data == null)

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Suppose current Node refers to a node in a linked list (using the Node class with member variables called data and nextNode). What boo

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learn expression will be true when cursor refers to the tail node of the list ?

(currentNode == null)

(currentNode->nextNode == null)

		(n (e xt N o r d e . n d at a = = n ul l))	
1	56	<input type="checkbox"/>	Any one node fulfills the AVL condition
At least half of the nodes fulfill the AVL condition			

All the nodes fulfill the AVL condition

A tree is an AVL tree if

Any one node fulfills the AVL condition

At least half of the nodes fulfill the AVL condition

		All nodes of the subtree rooted at the AVL condition satisfied	
1	57	<input checked="" type="checkbox"/>	In pre order traversal only
In inorder traversal only			

In postorder traversal only

In which of the traversal methods, the recursive calls can be used to traverse a binary tree?

In pre order traversal only

		In order traversal only		In A
				p ll
				o o
				st f
				or t
				d h
				er e
				tr g
				a i
				v v
				er e
				s n
				al o
				o p
				nl t
				y i
				o n
				s
1	58	<input type="checkbox"/>		True
False				
	Doubly Linked List always has one NULL pointer.			1
	True			
	False			
59	<input checked="" type="checkbox"/>		True	
False				
	A subscript of an array may be an integer or an integer expression.			1
	True			
	False			
60	<input type="checkbox"/>		Not an	

Unary

Binary

“+”
is a

ope
rato
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Not
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1 61

☐

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Binary

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1 62

☐

On
e

Two

Three

A binary search tree should have minimum of one

node/s at each level,

One

Two

Three

Linear way only

1 63

Non Linear way only

Both linear and non linear ways

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		B o t h l i n e a r t a n d n o n l i n e p a r t w i t h o u t	
1	64	<input type="checkbox"/>	Ro t No des
Leaf Nodes			

Both of these

The nodes with no successor are called _____

Root Nodes

Leaf Nodes

Both of these

165

☐

8

Consider the following tree.

1

How many of the nodes have at least one sibling?

8

7

5

6

☐

Neither changes

1

66

Only front pointer changes.

Only rear pointer changes.

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I have implemented the queue with a linked list, keeping track of a front pointer and a rear pointer. Which of the pointers will change?

nge
duri
ng
an
ins
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on
into
an
EM
PT
Y
que
ue?

Nei
ther
cha
nge
s

Onl
y
fron
t
poi
nter
cha
nge
s.

		Only research pointers change.	
1	67	<input type="checkbox"/>	1 pointer
2 pointer			

3 pointer

Each node in doubly link list has ,

1 pointer

2 pointer

3	4
p	p
o	o
i	i
n	n
t	t
e	e
r	r

1	68
---	----

☐

Stack

Queue

Link list

Which one is a self-referential data type?

Stack

Queue

Link list

False

1 69

☐

True

A queue where the de-queue operation depends not on FIFO, is called a priority queue

1

False

True

70

☐

current Node
++;

currentNode = nextNode;

currentNode += nextNode;

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Suppose current Node refers to a node in a linked list (using the Node class with member variables called data and nextNode). What stat

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curr
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=
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de;

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re	r
nt	r
N	e
o	n
d	t
e	N
+	o
=	d
n	e
e	=
xt	c
N	u
o	r
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e;	n
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	N
	o
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	x
	t
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	o
	d
	e
	;

1	71	<input type="checkbox"/> Any one node fulfills the AVL condition
At least half of the nodes fulfill the AVL condition		

All the nodes fulfill the AVL condition (

A tree is an AVL tree if

Any one node fulfills the AVL condition

At least half of the nodes fulfill the AVL condition

		All the nodes of the given tree are AVL condition (
1	72	<input type="checkbox"/>	No ne of the giv en opti ons
Call by passing the value of the argument			

Call by passing reference of the argument

Which one of the following calling methods does not change the original value of the argument in the calling function?

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Three

Each operator in a postfix expression refers to the previous _____ operator(s).

One

Two

T	F
h	r
e	o
e	u
r	r

1	74	<input checked="" type="checkbox"/>	In link ed list the ele me nts are nec ess aril y to be con tigu ous
In linked list the elements may locate at far positions in the memory			

In linked list each element also has the next to it

Which one of the following statement is NOT correct .

In linked list the elements are necessarily to be contiguous

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memory

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		In li n k e d li st e a c h e l e m e n t a l s o h a s th e n e xt to it		In n a r r a y a t h e l e m e n t s a r e co n ti gu o u s	
1	75			<input checked="" type="checkbox"/>	No n Lin ear dat a stru ctur e

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Hybrid data structure (Mixture of Linear and Non Linear)

AVL Tree is,

Non Linear data structure

Linear data structure

		Hybrid at a structure (Mixed type of Linear and Non Linear)	
1	76	<input type="checkbox"/>	Linear way only
Non Linear way only			

Both linear and non linear ways

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No
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		B ot h li n e ar a n d n o n li n e ar w a y s		N o n o f th e g i v e n o p ar t i o n s	
1	77			<input type="checkbox"/>	J and I
H and E					

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Consider the following binary search tree (BST):



If node A in the BST is deleted, which two nodes are the candidates to take

		e its pla ce?	
		J and I	
		H and E	
		D a n d E	L a n d M
1	78	<input type="checkbox"/>	Stri ctly Bin ary Tre e
Binary Search tree			

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is a binary tree where every node has a value, every node's left subtree contains only values less than or equal to the node's val

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tree

		A V L t r e e		A I l o f t h e s e	
1	79			<input type="checkbox"/>	Pre fix exp res sio n
Postfix expression					

Infix expression

The expression $AB + C^*$ is called?

Prefix expression

Postfix expression

Information of prefix expression

180

☐

data[1]

data[2]

data[11]

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Suppose we have a circular array implementation of the queue class, with ten items in the queue stored at data[2] through data[11]. The CAPA

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Wh
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y in
the
arr
ay?

		data[1]	
		data[2]	
		data[1]	data[2]
		data[1]	
1	81	<input checked="" type="checkbox"/>	At the head
At the tail			

After all other entries that are smaller than the new entry.

In the linked list implementation of the stack class, where does the push member function place the new entry on the linked list?

At
the
hea
d

At
the
tail

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A	A
ft	f
er	t
al	r
I	a
ot	ll
h	o
er	t
e	h
nt	e
ri	r
e	s
s	th
th	at
ar	r
e	i
s	e
m	s
al	t
le	h
r	a
th	t
a	a
n	r
th	e
e	g
n	r
e	e
w	a
e	t
nt	e
ry	r
.	t
	h
	a
	n
	t
	h
	e
	n
	e

			w e n t r y .
1	82	<input checked="" type="checkbox"/>	Log 2 (n+ 1) - 1
Log2 (n+1)			

$\text{Log}_2(n) - 1$

Suppose n is the number of nodes in a complete Binary Tree then the maximum steps required for a search operation are,

$\text{Log}_2(n+1) - 1$

		Log 2 (n+ 1)	
		L o g 2 (n) – 1	L o g 2 (n))
		1	
1	83	<input type="checkbox"/>	1
2			

n (where n is the argument)

What is the maximum depth of recursive calls a function may make?

1

2

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w	e
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e	e
n	i
is	s
th	n
e	o
ar	f
g	i
u	x
m	e
e	d
nt	m
)	a
	x
	i
	m
	u
	m

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1	84	<input type="checkbox"/>	Only x can alter the private member variables of the object that activates the function.
---	----	--------------------------	--

Only y can alter the private member variables of the object that activates the function.

Only z can alter the private member variables of the object that activates the function.

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Here is the start of a C++ class declaration:
class foo {
public:
void x(of);
void y(constants foo);
void z(of) const;
...
Which of the

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these member functions can alter the PRIVATE member variables of the foo object that activates the function?

Only x can alter the private member variables of the object that activates the function.

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Only y can alter the private member variables of the object that activates the function.

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O	T
n	w
y	o
z	o
c	f
a	t
n	h
a	e
l	f
t	u
e	n
r	c
th	pr
e	iv
pr	i
iv	o
at	n
e	s
m	c
s	a
e	n
c	a
m	b
a	n
b	a
er	v
v	ar
ar	t
t	e
ia	bl
e	r
s	t
h	of
th	p
e	r
o	i
bj	v
e	a
ct	t
th	e
at	m
a	e
ct	m
iv	b
at	e
e	r
s	v

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			n
1	85	<input type="checkbox"/>	Whenever the parameter has huge size.

Whenever the parameter has huge size, the function changes the parameter within its body, and you do NOT want these changes to alter the actual argument.

Whenever the parameter has huge size, the function changes the parameter within its body, and you DO want these changes to alter the actual argument.

When should you use a const reference parameter?

Whenever the parameter has huge size.

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Whenever the parameter has huge size, the function changes the parameter within its body, and you do NOT want the changes to alter

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W	W
h	h
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et	r
er	a
h	m
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O	r
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n	i
g	n
e	i
s	t
to	s
al	b
te	o
r	d
th	y

				e a c t u a l a r g u m e n t .	.
1	86				<input type="checkbox"/> Lin ear dat a stru ctur e
Non-linear data structure					

Graphical data structure

The tree data structure is a

Linear data structure

Non-linear data structure

		G D ra a p t hi a c s al t d r at u a c st t ru u ct r ur e e li k e q u e u e	
1	87	<input checked="" type="checkbox"/>	True
False			
	In the call by value methodology, a copy of the object is passed to the called function.		1
	True		
	False		
88	<input type="checkbox"/>	a = X (b) ;	
a = X (&b) ;			

$a = X (*b) ;$

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Consider the function X as under
 $\text{int } X(\text{int } \&\text{Value})$
{
 return Value;
}
Now a and b are integers in a calling function. Which one of the foll

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X.

a =
X
(b)
;

a =
X
(&b
);

		<div> <div>a</div> <div>=</div> <div>X</div> <div>(*</div> <div>b)</div> <div>;</div> </div> <div> <div>N</div> <div>o</div> <div>n</div> <div>e</div> <div>o</div> <div>f</div> <div>t</div> <div>h</div> <div>e</div> <div>g</div> <div>i</div> <div>v</div> <div>e</div> <div>n</div> <div>o</div> <div>p</div> <div>t</div> <div>i</div> <div>o</div> <div>n</div> <div>s</div> </div>	
1	89	<div> <input type="checkbox"/> </div> <div> <div>Us</div> <div>e</div> <div>bett</div> <div>er</div> <div>dat</div> <div>a</div> <div>stru</div> <div>ctur</div> <div>es</div> </div>	
Increase the hard disk space			

Use the better algorithm

The data of the problem is of 2GB and the hard disk is of 1GB capacity, to solve this problem we should

Use better data structures

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	A queue where the de-queue operation depends not on FIFO, is called a priority queue		1
	True		
	False		
91	<input type="checkbox"/>		No option found!
No option found!			
	No Question Found		1
	No option found!		
	No option found!		

Signature:

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