



CS301 Data Structures Update MCQS For MidTerm Solve By Vu Topper RM



80 To 100% Marks



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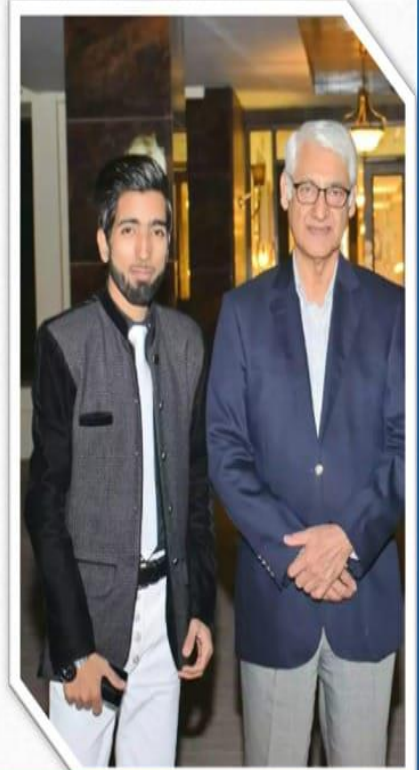
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Question No:1**(Marks:1)****Vu-Topper RM**

Which one is the correct function call for the following function of calculating cube?

- A. cube(num)**
- B. cube(*num)
- C. cube(&num)
- D. cube(&&num)

Question No:2**(Marks:1)****Vu-Topper RM**

In a complete binary tree, for 25000 nodes the depth will be-----

- A. 14**
- B. 13
- C. 12
- D. 11

Question No:3**(Marks:1)****Vu-Topper RM**

In level-order traversal for Binary Search Tree, _____ data structure is used.

- A. Queue**
- B. Stack
- C. Tree
- D. Heap

Question No:4**(Marks:1)****Vu-Topper RM**

If both left and right nodes of a node are NULL then this type of node is called a -----node.

- A. Leaf**
- B. Node
- C. Both
- D. None of these

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Question No:5

(Marks:1)

Vu-Topper RM

For searching a particular number in Binary Search Tree (if it is not present), the maximum number of comparisons will be _____ comparison(s) at each level.

A. 1

B. 2

C. 3

D. 4

Question No:6

(Marks:1)

Vu-Topper RM

In a complete binary tree the number of nodes at level 5 are

A. 32

B. 30

C. 23

D. 40

Question No:7

(Marks:1)

Vu-Topper RM

While implementing non-recursive traversal for Binary Search Tree, we need to implement _____.

A. Stack

B. Tree

C. Heap

D. Pointer

Question No:8

(Marks:1)

Vu-Topper RM

----- is used for Reference variables in C++.

A. &

B. @

C. #

D. *

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Question No:9

(Marks:1)

Vu-Topper RM

Left, right, info, and parent are the operations of _____ data structure.

A. Tree

B. Heap

C. Stack

D. Pointer

Question No:10

(Marks:1)

Vu-Topper RM

If a function has recursive call as the last statement, it is known as ____.

A. Local

B. Last

C. Function

D. Tail recursive

Question No:11

(Marks:1)

Vu-Topper RM

The abstract data type refers to the basic mathematical concept that defines the

A. Variable

B. Functions

C. Pointer

D. Data type

Question No:12

(Marks:1)

Vu-Topper RM

When a function calls another function, the parameters and return address of the calling function are put in _____.

A. Stack

B. Tree

C. Heap

D. Pointer

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Question No:13

(Marks:1)

Vu-Topper RM

The balance of a node in a binary tree is defined as the height of its _____ sub tree minus height of its right sub tree.

A. Left

B. Right

C. Upper

D. Lower

Question No:14

(Marks:1)

Vu-Topper RM

Function signatures are also called :

A. Function definition

B. Function prototype

C. Function overriding

D. Function overloading

Question No:15

(Marks:1)

Vu-Topper RM

If we return the reference of a local variable from a function it will cause:

A. Dangling reference

B. reference overloading

C. duplication of local variable

D. deletion of local variable from memory

Question No:16

(Marks:1)

Vu-Topper RM

In the perspective of memory organization each process is divided into _____ sections.

A. 2

B. 4

C. 6

D. 8

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Question No:17

(Marks:1)

Vu-Topper RM

The process of getting the value of a variable using pointers is called:

- A. Referencing
- B. Dereferencing**
- C. Memory allocation
- D. Memory deallocation

Question No:18

(Marks:1)

Vu-Topper RM

We allocate memory dynamically by using _____ operator.

- A. New**
- B. This
- C. Increment
- D. Decrement

Question No:19

(Marks:1)

Vu-Topper RM

_____ parameter passing (by value or by reference) is similar to PASCAL.

- A. C++**
- B. JAVA
- C. COBOL
- D. FORTRAN

Question No:20

(Marks:1)

Vu-Topper RM

Which of the following is known as "Last-In, First-Out" or LIFO Data Structure?

- A. Tree
- B. Stack**
- C. Heap
- D. Pointer

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Question No:21

(Marks:1)

Vu-Topper RM

Following is a keyword of C++ _____

A. Delete

B. Update

C. Remove

D. Eliminate

Question No:22

(Marks:1)

Vu-Topper RM

If the root of a tree is at level zero, its two children (subtrees) i.e. nodes will be at _____

A. Level 1

B. Level 2

C. Level 3

D. Level 4

Question No:23

(Marks:1)

Vu-Topper RM

If the root of a tree is at level three in case of a complete binary tree i.e nodes will be at _____.

A. 4

B. 6

C. 8

D. 10

Question No:24

(Marks:1)

Vu-Topper RM

Suppose we have the following values to be inserted in constructing AVL

tree, 10, 13, 15, 5, 7, 8 Tell when first rotation will take place,

A. After inserting the node 10

B. After inserting the node 15

C. After inserting the node 20

D. After inserting the node 25

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Question No:25

(Marks:1)

Vu-Topper RM

Which data structure is needed to convert infix expression to postfix expression?

- A. Tree
- B. Stack**
- C. Heap
- D. Pointer

Question No:26

(Marks:1)

Vu-Topper RM

In AVL tree during insertion, a single rotation can fix the balance in cases _____ and.

- A. 1**
- B. 2
- C. 3
- D. 4

Question No:27

(Marks:1)

Vu-Topper RM

Which type of rotation can balance the following AVL tree?

- A. Single left
- B. Single right
- C. Double right-left
- D. Double left-right**

Question No:28

(Marks:1)

Vu-Topper RM

If the root of a tree is at level two in case of a complete binary tree i.e nodes will be at _____.

- A. 2
- B. 4**
- C. 6
- D. 8

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Question No:29

(Marks:1)

Vu-Topper RM

To search an element in ALV tree, it takes maximum $1.88 \log_2 n$ time.

A. False

B. True

C. In some cases

D. Searching cannot be performed in AVL tree

Question No:30

(Marks:1)

Vu-Topper RM

Local variables of a function are stored in,

A. Stack

B. Tree

C. Heap

D. Pointer

Question No:31

(Marks:1)

Vu-Topper RM

For making Binary Search Tree for Strings we need, _____ data type.

A. Int

B. Char

C. Float

D. Double

Question No:32

(Marks:1)

Vu-Topper RM

We can make a lexicographic order of characters based on their ____.

A. ASCII values

B. Binary digits

C. Random choice

D. Memory addresses

Question No:33

(Marks:1)

Vu-Topper RM

A BST generated from the data in ascending order is _____.

A. Linear

B. Un sorted

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- C. Balanced
- D. Nonlinear

Question No:34

(Marks:1)

Vu-Topper RM

The _____ of a node in a binary tree is defined as the height of its left subtree minus height of its right subtree.

- A. Width
- B. Level
- C. Height
- D. Balance**

Question No:35

(Marks:1)

Vu-Topper RM

All the objects created using _____ operator have to be explicitly destroyed using the delete operator.

- A. New**
- B. Build
- C. Create
- D. Construct

Question No:36

(Marks:1)

Vu-Topper RM

Which of the following is a nonlinear data structure?

- A. Tree**
- B. Heap
- C. Stack
- D. Pointer

Question No:37

(Marks:1)

Vu-Topper RM

Consider the following push operations of a Stack:

- A. Stack.push(4);
- B. Stack.push(6);
- C. Stack.push(5);
- D. Stack.push(8);**

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Question No:38

(Marks:1)

Vu-Topper RM

~BinarySearchTree() is a _____.

A. Destructor

B. Constructor

C. Switch case

D. Template method call

Question No:39

(Marks:1)

Vu-Topper RM

HOW many cases of rotation are there in AVL tree?

A. 2

B. 4

C. 6

D. 8

Question No:40

(Marks:1)

Vu-Topper RM

_____ tree has been named after two persons Adelson-Velskii and Landis.

A. AVL

B. RED

C. Tree

D. Binary search

Question No:41

(Marks:1)

Vu-Topper RM

If there is a strictly complete binary tree of depth 3, the total number of nodes in it will be?

A. 2K

B. 0k

C. 1k

D. 3k

Question No:42

(Marks:1)

Vu-Topper RM

There are _____cases of Rotation in AVL tree.

A. 2

B. 4

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- C. 6
- D. 8

Question No:43

(Marks:1)

Vu-Topper RM

If one converts the above expression into postfix, what would be the resultant expression?

- A. 78/9+**
- B. 87/9+
- C. +78/*
- D. 9/78+

Question No:44

(Marks:1)

Vu-Topper RM

In simple or singly linked list there is/are _____ pointer/s in each node.

- A. One**
- B. Two
- C. Four
- D. Three

Question No:45

(Marks:1)

Vu-Topper RM

The principal benefit of a linked list over a conventional array is that the order of the linked items may be _____ from the order that the data items are stored in memory.

- A. Same**
- B. Different
- C. Both
- D. None of these

Question No:46

(Marks:1)

Vu-Topper RM

The computer memory can be thought of as a/an

- A. Tree
- B. Array**
- C. Heap

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D. Pointer

Question No:47

(Marks:1)

Vu-Topper RM

Suppose we have a value for Queue: 2 1 4 6 3 Where front is at 2 and rear is at 3, after dequeue one element from that Queue, what will be the resultant Queue?

A. 2146

B. 2141

C. 4621

D. 2147

Question No:48

(Marks:1)

Vu-Topper RM

The -- is a decrement operator in C++ that decreases the value of the operand by _____.

A. One

B. Two

C. Five

D. Six

Question No:49

(Marks:1)

Vu-Topper RM

In Left-Right case of rotation in _____ tree. A double rotation is performed.

A. AVL

B. VLA

C. EVL

D. LVA

Question No:50

(Marks:1)

Vu-Topper RM

The _____ of every node should be 1, 0 or -1 otherwise, it will not be an AVL tree.

A. Tree

B. AVL

C. Pointer

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D. Balance

Question No:51

(Marks:1)

Vu-Topper RM

In singly linked list a node comprises of _____ field/s.

A. Two

B. One

C. Six

D. Five

Question No:52

(Marks:1)

Vu-Topper RM

`int htdiff = height(root->getLeft()) height(root->getRight());` The above line of code is taken from AVL insert method. Complete it by selecting an appropriate symbol.

A. Minus (-)

B. Add

C. Sub

D. Multiple

Question No:53

(Marks:1)

Vu-Topper RM

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

A. Two

B. Three

C. Four

D. Five

Question No:54

(Marks:1)

Vu-Topper RM

The _____ method of list will position the currentNode and lastCurrentNode at the start of the list.

A. Start

B. End

C. Middle

D. None of these

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Question No:55

(Marks:1)

Vu-Topper RM

_____ is utilized at the time of memory allocation in dynamic manner.

A. Heap

B. Stack

C. Array

D. Function

Question No:56

(Marks:1)

Vu-Topper RM

What will be the result of evaluating following expression? $5+3*2/(6-3)$

A. 1

B. 3

C. 7

D. 5

Question No:57

(Marks:1)

Vu-Topper RM

Which of the following is the correct conversion of infix to postfix expression?

A. $Z+B-(D-H)/K$

B. $ZB+DH-K/-$

C. $Z+B-(H-D)/K$

D. $Z+B-(D-H)$

Question No:58

(Marks:1)

Vu-Topper RM

The _____ of a binary tree is the maximum level of its leaves (also called the depth).

A. Width

B. Level

C. Height

D. Balance

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Question No:59

(Marks:1)

Vu-Topper RM

Memory address is stored in

- A. Array
- B. Int
- C. Pointer**
- D. Function

Question No:60

(Marks:1)

Vu-Topper RM

If numbers 5, 222, 4, 48 are inserted in a queue, which one will be removed first?

- A. 5**
- B. 6
- C. 7
- D. 8

Question No:61

(Marks:1)

Vu-Topper RM

Consider the following infix expression.

- A. $7/8 + 9$**
- B. $8/7+9$
- C. $-7/8+9$
- D. $78/+9$

Question No:62

(Marks:1)

Vu-Topper RM

_____ is the major factor to see the efficiency of a program.

- A. Time**
- B. Cost
- C. Maintance
- D. None of these

Question No:63

(Marks:1)

Vu-Topper RM

There are four cases of rotation in an _____ tree.

- A. AVL**
- B. Tree

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- C. Binary
- D. Heap

Question No:64

(Marks:1)

Vu-Topper RM

The back() method decreases the value of variable current by ____.

A. One

- B. Two
- C. Four
- D. Three

Question No:65

(Marks:1)

Vu-Topper RM

Each node in singly linked list contains _____

A. One Pointers

- B. Two Pointers
- C. Six Pointers
- D. Five Pointers

Question No:66

(Marks:1)

Vu-Topper RM

The _____ symbol is used when we want to get the value of a variable using pointer

A. *

- B. @
- C. &
- D. #

Question No:67

(Marks:1)

Vu-Topper RM

A zigzag rotation is performed. In Left-Left case of rotation in AVL tree.

False

Ture

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Question No:68

(Marks:1)

Vu-Topper RM

The lifetime of a transient object cannot exceed that of the application.

True

False

Question No:69

(Marks:1)

Vu-Topper RM

AVL tree is nonlinear data structure.

True

False

Question No:70

(Marks:1)

Vu-Topper RM

AVL tree is linear data structure.

False

True

Question No:71

(Marks:1)

Vu-Topper RM

AVL tree is a binary search tree

True

False

Question No:72

(Marks:1)

Vu-Topper RM

Elements in a queue data structure are added from_____ and removed from-----?

Rear end. front end

Question No:73

(Marks:1)

Vu-Topper RM

Which of the following traversal method traverses the binary tree in sorted order?

inOrder() method

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Question No:74

(Marks:1)

Vu-Topper RM

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

In preorder traversal

Question No:75

(Marks:1)

Vu-Topper RM

Which of the following is TRUE for search operations in a binary tree as compared to linked list or an array?

It increases the number of comparisons

Question No:76

(Marks:1)

Vu-Topper RM

In a tree, we link the nodes in such a way that it _____ a linear structure.

Does not remain

Question No:77

(Marks:1)

Vu-Topper RM

When a function calling itself is called as _____.

Recursion

Question No:78

(Marks:1)

Vu-Topper RM

In a program a reference variable with name "x" can be declared as

int &x;

Question No:79

(Marks:1)

Vu-Topper RM

A binary tree is said to be a _____ binary tree if every non-leaf node in a binary tree has nonempty left and right subtrees.

Strictly binary tree

Question No:80

(Marks:1)

Vu-Topper RM

We can calculate the _____ of a subtree by counting its levels from the bottom.

Height

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Question No:81

(Marks:1)

Vu-Topper RM

In C++, we place the class interface in _____file.

.cpp file

Question No:82

(Marks:1)

Vu-Topper RM

In which traversal method root node is visited at last step?

Post-order Traversal

Question No:83

(Marks:1)

Vu-Topper RM

For a complete binary tree with n numbers of nodes, the depth is calculated as _____

$\log_2(\text{number of nodes}+1)-1$

Question No:84

(Marks:1)

Vu-Topper RM

A _____ is a tree in which every level, except possibly the last, is completely filled.

Complete binary tree

Question No:85

(Marks:1)

Vu-Topper RM

Local variables defined inside function body are _____ automatically at the end of function execution.

Destroyed

Question No:86

(Marks:1)

Vu-Topper RM

BinarySearchTree () is-----?

Destroyed

Question No:87

(Marks:1)

Vu-Topper RM

Sub-tree of binary search tree should be _____.

Binary search tree

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Question No:88

(Marks:1)

Vu-Topper RM

Josephus problem is resolved by the implementation of_____.

Circular linked list

Question No:89

(Marks:1)

Vu-Topper RM

In which of the following tree for each node, the value of root node is greater than left child and smaller than right child ?

Binary search tree

Question No:90

(Marks:1)

Vu-Topper RM

If we use singly linked list to implement list, then there is an issue that it gives difficulty when we:

We will increase its size

Question No:91

(Marks:1)

Vu-Topper RM

In a list, tail() method of current pointer _____

Moves the "current" pointer to the very last element

Question No:92

(Marks:1)

Vu-Topper RM

Two common models of simulation are _____ and _____.

Time –based simulation and Event- based simulation

Question No:93

(Marks:1)

Vu-Topper RM

When add() operation of a linked list is called the following action is done

A new node is made

Question No:94

(Marks:1)

Vu-Topper RM

What will be the postfix expression of following infix expression?

A B + C D/ + E –

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Question No:95

(Marks:1)

Vu-Topper RM

Stack and Queue can be implemented using _____,

Singly Link List

Question No:96

(Marks:1)

Vu-Topper RM

What will be postfix expression of the following infix expression?

Infix Expression

Abc*+d-

Question No:97

(Marks:1)

Vu-Topper RM

_____ method returns the top element of the stack without removing it.

Top()

Question No:98

(Marks:1)

Vu-Topper RM

In tree, the search operation is _____ as compared to the linked list.

Very fast

Question No:99

(Marks:1)

Vu-Topper RM

In _____, a programmer uses two pointers in the node, i.e. one to point to next node and the other to point to the previous node.

Linked list

Question No:100

(Marks:1)

Vu-Topper RM

A queue is a data structure where elements are

Inserted and removed from both ends

Question No:101

(Marks:1)

Vu-Topper RM

The stack implementing an array causes worst case behavior when the insertion and deletion of an element done from

Beginning of an array

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Question No:102

(Marks:1)

Vu-Topper RM

If a node is inserted in outer side of a node in binary search tree then to make it AVL tree,

We may have to apply single rotation

Question No:103

(Marks:1)

Vu-Topper RM

Stack.push(15) will push 15 on _____.

Top of the stack

Question No:104

(Marks:1)

Vu-Topper RM

During the execution of a process, operating system constructs four things for that process. Which of the following is not part of that process?

Liked list

Question No:105

(Marks:1)

Vu-Topper RM

Suppose there are three nodes tree with three numbers 14, 4, 15. Following is not a permutation, or combination for output them.

(4,4, 15)

Question No:106

(Marks:1)

Vu-Topper RM

The type of expression in which operator succeeds its operands is _____ expression.

Postfix

Question No:107

(Marks:1)

Vu-Topper RM

The function calls are made with the help of _____.

Queue

Question No:108

(Marks:1)

Vu-Topper RM

In case of insertion of right inner node in BST,

Left rotation then right to make AVL

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Question No:109

(Marks:1)

Vu-Topper RM

Which operation of queue data structure is used to get front element from the queue and then remove it from the queue?

Remove()

Question No:110

(Marks:1)

Vu-Topper RM

In _____ various cells of memory are not located continuously.

Linked list

Question No:111

(Marks:1)

Vu-Topper RM

Which operation of queue data structure is used to insert an element into the Queue?

Enqueuer()

Question No:112

(Marks:1)

Vu-Topper RM

From Operating System point of view, the recursive function calls are made with the help of _____.

Queue

Question No:113

(Marks:1)

Vu-Topper RM

Array cells are _____ in computer memory.

Contiguous

Question No:114

(Marks:1)

Vu-Topper RM

Leaf node of binary search tree contains _____

One null pointer

Question No:115

(Marks:1)

Vu-Topper RM

dequeue() operation of queue data structure is used to _____

remove an element from the front and return it

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Question No:116

(Marks:1)

Vu-Topper RM

The depth of a binary tree is

Maximum level of a leaf

Question No:117

(Marks:1)

Vu-Topper RM

Which of the following operation returns but do not removes top value of the stack?

Top

Question No:118

(Marks:1)

Vu-Topper RM

In doubly linked list a node consists of three parts:

2 pointer and 1 object

Question No:119

(Marks:1)

Vu-Topper RM

Last node in circular linked list contains

No null pointer

Question No:120

(Marks:1)

Vu-Topper RM

A _____ model attempts to model a real-world phenomenon

Simulation

Question No:121

(Marks:1)

Vu-Topper RM

Factorial is an example of _____ function.

Recursive

Question No:122

(Marks:1)

Vu-Topper RM

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

Call by passing the value of the argument

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Question No:123

(Marks:1)

Vu-Topper RM

In level-order traversal for Binary Search Tree, we visit the nodes at each level before proceeding to the next level, in a _____ order.

Left -to -right

Question No:124

(Marks:1)

Vu-Topper RM

Binary Search Tree violates the condition of AVL tree when any node has balance equal to

1or-1

Question No:125

(Marks:1)

Vu-Topper RM

_____ is when function is calling to itself.

Recursion

Question No:126

(Marks:1)

Vu-Topper RM

Which of the following function don't belongs to the stack class?

Crash()

Question No:127

(Marks:1)

Vu-Topper RM

copy() method of list data structure _____

Set one list to be a copy of another

Question No:128

(Marks:1)

Vu-Topper RM

Following is true in case of using Recursive method calls

The code becomes very short

Question No:129

(Marks:1)

Vu-Topper RM

_____ is a self-balancing tree.

Binary Search Tree

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Question No:130

(Marks:1)

Vu-Topper RM

While implementing stack with an array and to achieve LIFO behavior, we used push and pop elements at

The start of the array

Question No:131

(Marks:1)

Vu-Topper RM

Generalized code written for a class is called

Structure

Question No:132

(Marks:1)

Vu-Topper RM

Which of the following statement is false?

Pointers store the next data element of a list

Question No:133

(Marks:1)

Vu-Topper RM

Want and de-allocating memory for linked list nodes does take more than pre-allocated array

More

Question No:134

(Marks:1)

Vu-Topper RM

Suppose you are writing a class for Node class and forgot to write the constructor of the class, then

Compiler will automatically generate a default constructor

Question No:135

(Marks:1)

Vu-Topper RM

Which of the following is the correct option for priority Queue?

The type of queues that is FIFO i.e. the person who comes first should leave first.

Question No:136

(Marks:1)

Vu-Topper RM

add(12) method of linked list class will:

Add 12 as value in linked list

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Question No:137

(Marks:1)

Vu-Topper RM

In singly linked list “next” field of node contains:

Address of next node

Question No:138

(Marks:1)

Vu-Topper RM

Which of the following line of code is incorrect?

The lifetime of a transient object can exceed that of the application which is accessing it.

Question No:139

(Marks:1)

Vu-Topper RM

A list is the collection of items of the _____

Same type

Question No:140

(Marks:1)

Vu-Topper RM

back() method of List class is used to:

Moves the “current” pointer to backward one element.

Question No:141

(Marks:1)

Vu-Topper RM

_____ is the maximum height of the AVL tree.

$1.44\log_2 n$

Question No:142

(Marks:1)

Vu-Topper RM

length() method of List class is used to:

Return the length of the list

Question No:143

(Marks:1)

Vu-Topper RM

Allocating and de-allocating memory for linked list nodes does take _____ time than pre-allocated array.

More

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Question No:144

(Marks:1)

Vu-Topper RM

In which case of insertion we require double rotation to make the AVL tree balance.

None

Question No:145

(Marks:1)

Vu-Topper RM

In array list the worst case of removing an element is

To remove the item from start

Question No:146

(Marks:1)

Vu-Topper RM

Whenever we call a function, the compiler makes a stack, the top element of the stack is _____ of the function.

Return Address

Question No:147

(Marks:1)

Vu-Topper RM

Whenever we call a function, the compiler makes a _____ that it uses to fulfill this function call.

Stack

Question No:148

(Marks:1)

Vu-Topper RM

_____ rule applies for evaluating operators of same precedence in an expression

None

Question No:149

(Marks:1)

Vu-Topper RM

The postfix form of the expression $A + B * C$ and $(A + B) * C$ will be _____.

Same

Question No:150

(Marks:1)

Vu-Topper RM

If we use array to implement list, then there is an issue that it gives difficulty when:

We will access value randomly

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Question No:151

(Marks:1)

Vu-Topper RM

During in-order traversal using recursive calls, if we found a node is NULL. It means this node will satisfy following condition.

It will not have left child

Question No:152

(Marks:1)

Vu-Topper RM

Which one the following is more closer to AVL tree, (chose the best option)

Binary Search Tree

Question No:153

(Marks:1)

Vu-Topper RM

In internal memory organization of a process, there is some area of memory for static data that holds _____ variables.

Both Static and Global

Question No:154

(Marks:1)

Vu-Topper RM

Which one is not the property of binary tree?

Sibling node should be same parent

Question No:155

(Marks:1)

Vu-Topper RM

What's wrong with following loop? while((i < 10) && (i > 24)) { }

The Condition is always false

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