Grand Quiz Spring 2021

Subject Code CS301 lecture 1 to 22

Solved by Riz Mughal

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CS301:Grand Quiz

Question # 1 of 30 (Start time: 09:00:17 AM, 22 June 2021)

What will be the postfix expression of following infix expression?
D+E*F/G

Select the correct option

- DE+FG*/
- DE+F*G/
- DEF*G/+
- DE*F/G+

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Question # 2 of 30 (Start time: 09:00:39 AM, 22 June 2021)

Josephus problem is resolved by the implementation of_____.

Select the correct option

- ○ Stack
- ○ List
- ○ Queue
- ● Circular linked list

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Question # 4 of 30 (Start time: 09:02:32 AM, 22 June 2021)

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

Select the correct option

- ○ 16
- ○ 12
- ● 14
- ○ 15

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Question # 5 of 30 (Start time: 09:02:52 AM, 22 June 2021)

We allocate memory dynamically by using _____ operator.

Select the correct option

- ○ increment
- ○ decrement
- ○ this
- ● new

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Question # 6 of 30 (Start time: 09:03:09 AM, 22 June 2021)

Suppose we have the following values to be inserted in constructing AVL tree,
20,23,25,10,12,13
Tell when first rotation will take place,

Select the correct option

- ○ after inserting node 23
- ● after inserting node 25
- ○ after inserting node 12
- ○ after inserting node 10

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Question # 7 of 30 (Start time: 09:03:25 AM, 22 June 2021)

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

Select the correct option

- ○ Memory addresses
- ● ASCII values
- ○ Binary digits
- ○ Random choice

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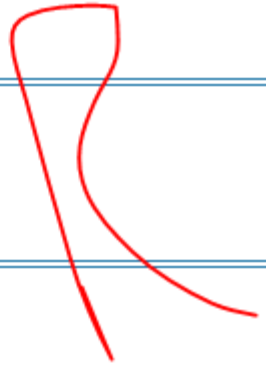
Question # 8 of 30 (Start time: 09:03:41 AM, 22 June 2021)

Generally there is/are _____ case(s) to delete a node from BST.

Select the correct option

- ○ 4
- ○ 1
- ● 3
- ○ 2



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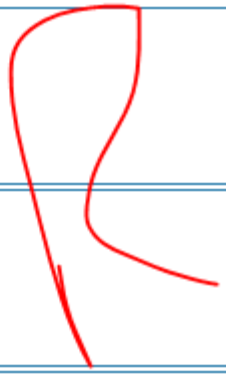
Question # 9 of 30 (Start time: 09:03:55 AM, 22 June 2021)

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

Select the correct option

- top()
- pop()
- crash()
- push()



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Question # 10 of 30 (Start time: 09:04:11 AM, 22 June 2021)

Making the tree unbalanced, it violates the _____ rule.

Select the correct option

- stack
- queue
- linked list
- AVL

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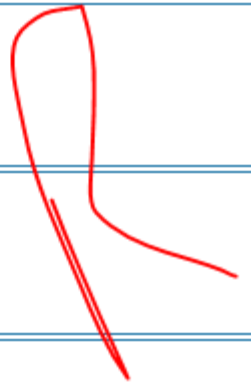
Question # 11 of 30 (Start time: 09:04:27 AM, 22 June 2021) Tot

Analyze the given code carefully and choose the statement which will be used if we want to set 7 as the value of root ?

```
int x [] = {14,15,4,9,7,18,3,5,16,4,20,17};
TreeNode * root = new TreeNode();
```

Select the correct option Reload Math E

- ○ root->setInfo(&x);
- ○ root->setInfo(&x[0]);
- ● root->setInfo(&x[4]);
- ○ root->setInfo(x);



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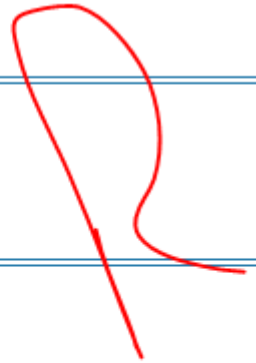
Question # 12 of 30 (Start time: 09:04:56 AM, 22 June 2021)

STL is a _____ that is a part of the official standard of C++.

Select the correct option

- .cpp file
- .h file
- C program file
- Library



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Question # 13 of 30 (Start time: 09:05:13 AM, 22 June 2021)

length() method of List class is used to:

Select the correct option

- (●) Return the length of the list
- ( ) Return the length of empty part of the list
- ( ) Return the length of the array
- ( ) Return the length of empty part of the array

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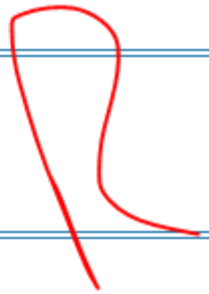
Question # 14 of 30 (Start time: 09:05:28 AM, 22 June 2021)

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,

Select the correct option

- (●) after inserting node 15
- ( ) after inserting node 5
- ( ) after inserting node 7
- ( ) after inserting node 13



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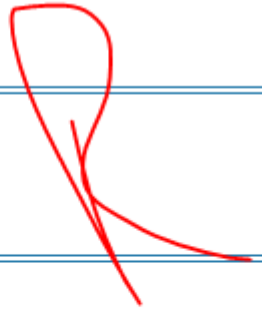
Question # 15 of 30 (Start time: 09:05:41 AM, 22 June 2021)

Which of the following operation returns the contents of a binary tree node?

Select the correct option

- ○ isLeaf(p)
- ○ brother(p)
- ○ parent(p)
- ● info(p)



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Question # 16 of 30 (Start time: 09:05:54 AM, 22 June 2021)

The first statement in the given code is called as:

```
class BinarySearchTree ;
class BinaryNode{
friend class BinarySearchTree;
};
```

Select the correct option

- Binary Declaration
- Pre Class Declaration
- Forward Declaration
- Post Class Declaration

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Question # 17 of 30 (Start time: 09:06:11 AM, 22 June 2021)

Sub-tree of binary search tree should be _____.

Select the correct option

- (●) Binary search tree
- ( ) Binary tree
- ( ) Strictly binary tree
- ( ) Complete binary tree

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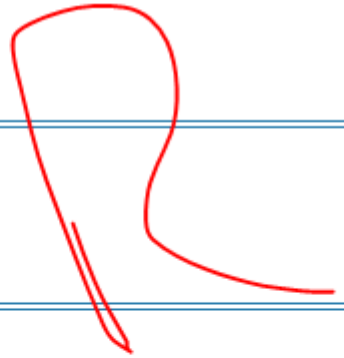
Question # 18 of 30 (Start time: 09:06:27 AM, 22 June 2021)

To

At the time while evaluating an expression, if we want to give higher precedence to lower precedence operator, we used ___

Select the correct option

- Dots
- Parenthesis
- Comas
- Operands



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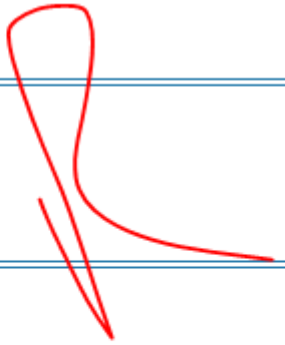
Question # 19 of 30 (Start time: 09:06:41 AM, 22 June 2021)

Which of the following is not a form of expression?

Select the correct option

- Postfix
- Infix
- Prefix
- Pastfix



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Question # 20 of 30 (Start time: 09:06:55 AM, 22 June 2021)

Leaf node of binary search tree contains _____

Select the correct option

- (●) Two Null pointers
- ( ) One Null pointer
- ( ) No Null pointer
- ( ) Three Null pointers

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Question # 21 of 30 (Start time: 09:07:09 AM, 22 June 2021)

Which of the following operation is used to get an element from the top of stack?

Select the correct option

- ○ get()
- ○ pop()
- ○ push()
- ● top()

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Question # 22 of 30 (Start time: 09:07:24 AM, 22 June 2021)

Which one of the following operations returns and removes top value of the stack?

Select the correct option

- ○ First
- ○ Top
- ● Pop
- ○ Push

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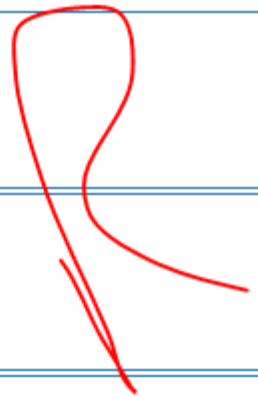
Question # 23 of 30 (Start time: 09:07:39 AM, 22 June 2021)

Total

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

Select the correct option

- (●) 1
- ( ) 3
- ( ) 2
- ( ) 4



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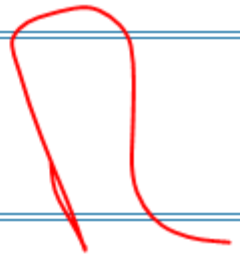
Question # 24 of 30 (Start time: 09:07:55 AM, 22 June 2021)

_____ is used for Reference variables in C++.

Select the correct option

- ○ #
- ● &
- ○ @
- ○ !



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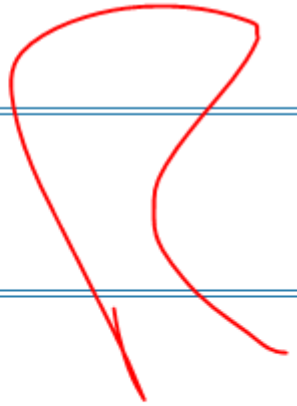
Quiz Start Time: 09

Question # 25 of 30 (Start time: 09:08:10 AM, 22 June 2021)

If the elements are "3","5","1","6", in which order they will be removed from the Queue one by one?

Select the correct option

- 3 1 5 6
- 6 1 5 3
- 6 5 1 3
- 3 5 1 6



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Question # 26 of 30 (Start time: 09:08:25 AM, 22 June 2021)

If we use doubly linked list to implement list, then there is an issue of:

Select the correct option

- pre pointer of first node and pre pointer of last node are NULL
- next pointer of first node and pre pointer of last node are NULL
- next pointer of first node and next pointer of last node are NULL
- pre pointer of first node and next pointer of last node are NULL

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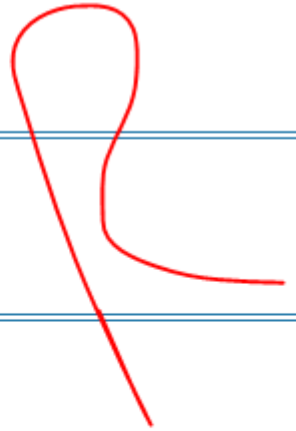
Question # 27 of 30 (Start time: 09:08:44 AM, 22 June 2021)

To search an element in ALV tree, it takes maximum 1.88 Log2n time.

Select the correct option

- (●) False
- ( ) Searching cannot be performed in AVL tree
- ( ) In some cases
- ( ) True



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Question # 28 of 30 (Start time: 09:08:57 AM, 22 June 2021)

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

Select the correct option

- 222
- 5
- 4
- 48