

# CS 301

## Quiz No.2

### Solution by Sufyan

# JUTT

CS301 - Data Structures (Quiz No. 2)

Quiz Start Time: 02:10 AM, 04 December 2023

Question # 1 of 10 ( Start time: 02:10:19 AM, 04 December 2023 )

Total Marks: 1

~BinarySearchTree() is a \_\_\_\_\_.

Select the correct option

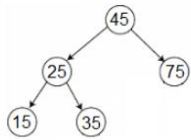
- |                                  |                      |
|----------------------------------|----------------------|
| <input type="radio"/>            | Destructor           |
| <input checked="" type="radio"/> | Constructor          |
| <input type="radio"/>            | Template method call |
| <input type="radio"/>            | Switch case          |

Click to Save Answer & Move to Next Question

## Question # 2 of 10 ( Start time: 02:11:25 AM, 04 December 2023 )

Total Marks: 1

What will be the inorder traversal of the given tree?



Select the correct option

[Reload Math Equations](#)

- |                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | 25 15 35 45 75 |
| <input type="radio"/>            | 45 25 75 15 35 |
| <input type="radio"/>            | 15 25 35 75 45 |
| <input checked="" type="radio"/> | 15 25 35 45 75 |

[Click to Save Answer & Move to Next Question](#)

## Question # 3 of 10 ( Start time: 02:12:23 AM, 04 December 2023 )

Total Marks: 1

After deletion of a node from a binary search tree, \_\_\_\_\_ traversal method should be maintained.

Select the correct option

[Reload Math Equations](#)

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Postorder   |
| <input type="radio"/>            | Preorder    |
| <input type="radio"/>            | Level order |
| <input checked="" type="radio"/> | Inorder     |

[Click to Save Answer & Move to Next Question](#)

Question # 4 of 10 ( Start time: 02:13:29 AM, 04 December 2023 )

Total Marks: 1

Following is a keyword of C++ \_\_\_\_\_

Select the correct option

- |                                  |           |
|----------------------------------|-----------|
| <input type="radio"/>            | remove    |
| <input type="radio"/>            | del       |
| <input type="radio"/>            | eliminate |
| <input checked="" type="radio"/> | delete    |

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 ( Start time: 02:14:21 AM, 04 December 2023 )

Total Marks: 1

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

Select the correct option

- |                                  |    |
|----------------------------------|----|
| <input type="radio"/>            | 32 |
| <input type="radio"/>            | 15 |
| <input checked="" type="radio"/> | 31 |
| <input type="radio"/>            | 16 |

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 ( Start time: 02:14:55 AM, 04 December 2023 )

Total Marks: 1

The first statement in the given code is called as:

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

Select the correct option

[Reload Math Equations](#)

- |                                  |                        |
|----------------------------------|------------------------|
| <input type="radio"/>            | Binary Declaration     |
| <input type="radio"/>            | Pre Class Declaration  |
| <input checked="" type="radio"/> | Forward Declaration    |
| <input type="radio"/>            | Post Class Declaration |

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 ( Start time: 02:15:50 AM, 04 December 2023 )

Total Marks: 1

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

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input type="radio"/>            | Referencing         |
| <input type="radio"/>            | Memory deallocation |
| <input checked="" type="radio"/> | Dereferencing       |
| <input type="radio"/>            | Memory allocation   |

[Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 ( Start time: 02:16:30 AM, 04 December 2023 )

Total Marks: 1

In the perspective of memory organization every process executing, the first part of the memory is for the \_\_\_\_\_ of the program.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Stack
<input type="radio"/>	Data
<input checked="" type="radio"/>	Code
<input type="radio"/>	Heap

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 ( Start time: 02:17:45 AM, 04 December 2023 )

Total Marks: 1

A BST generated from the data in ascending order is \_\_\_\_\_.

Select the correct option

<input type="radio"/>	Balanced
<input checked="" type="radio"/>	Linear
<input type="radio"/>	Un sorted
<input type="radio"/>	Nonlinear

[Click to Save Answer & Move to Next Question](#)

Question # 10 of 10 ( Start time: 02:18:23 AM, 04 December 2023 )

Total Marks: 1

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

Select the correct option

<input checked="" type="radio"/>	ASCII values
<input type="radio"/>	Memory addresses
<input type="radio"/>	Random choice
<input type="radio"/>	Binary digits

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 ( Start time: 02:20:29 AM, 04 December 2023 )

Total Marks: 1

Suppose we want to create the left child of a node 'p' and set the value x in it. Which of the following statement is correct for this operation?.

Select the correct option

<input type="radio"/>	Left(x, p)
<input checked="" type="radio"/>	setLeft(p, x)
<input type="radio"/>	Left(p, x)
<input type="radio"/>	setLeft(x, p)

[Reload Math Equations](#)[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 ( Start time: 02:21:29 AM, 04 December 2023 )

Total Marks: 1

The \_\_\_\_\_ of a binary tree is the maximum levels of its deepest leaf.

Select the correct option

[Reload Math Equations](#)

- |                                  |                 |
|----------------------------------|-----------------|
| <input checked="" type="radio"/> | Height          |
| <input type="radio"/>            | Width           |
| <input type="radio"/>            | Number of nodes |
| <input type="radio"/>            | Balance         |

[Click to Save Answer & Move to Next Question](#)

Question # 3 of 10 ( Start time: 02:22:14 AM, 04 December 2023 )

Total Marks: 1

If p is pointing to a node in an existing tree then info(p) means:

Select the correct option

[Reload Math Equations](#)

- |                                  |  |
|----------------------------------|--|
| <input type="radio"/>            | Returns true if it is a parent node      |
| <input type="radio"/>            | Returns false if it is not a parent node |
| <input checked="" type="radio"/> | Returns the contents of node p           |
| <input type="radio"/>            | Returns the pointer of node p            |

[Click to Save Answer & Move to Next Question](#)

Question # 4 of 10 ( Start time: 02:23:03 AM, 04 December 2023 )

Total Marks: 1

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

Select the correct option

[Reload Math Equations](#)

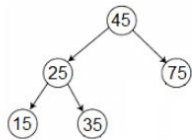
- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Level order |
| <input checked="" type="radio"/> | In-order    |
| <input type="radio"/>            | Pre-order   |
| <input type="radio"/>            | Post-order  |

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 ( Start time: 02:23:36 AM, 04 December 2023 )

Total Marks: 1

What will be the preorder traversal of the given tree?



Select the correct option

[Reload Math Equations](#)

- |                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | 45 75 15 35 25 |
| <input checked="" type="radio"/> | 45 25 15 35 75 |
| <input type="radio"/>            | 15 35 25 45 75 |
| <input type="radio"/>            | 45 25 75 15 35 |

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 ( Start time: 02:24:54 AM, 04 December 2023 )

Total Marks: 1

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

Select the correct option

[Reload Math Equations](#)

- |                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | isLeaf(p)  |
| <input type="radio"/>            | brother(p) |
| <input checked="" type="radio"/> | info(p)    |
| <input type="radio"/>            | parent(p)  |

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 ( Start time: 02:25:36 AM, 04 December 2023 )

Total Marks: 1

Which of the following calling method does not change the original value of variable passed to a function as an argument?

Select the correct option

[Reload Math Equations](#)

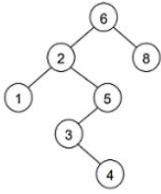
- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Call by passing as name      |
| <input type="radio"/>            | Call by passing as reference |
| <input type="radio"/>            | Call by passing as pointer   |
| <input checked="" type="radio"/> | Call by passing as value     |

[Click to Save Answer & Move to Next Question](#)

## Question # 8 of 10 ( Start time: 02:26:08 AM, 04 December 2023 )

Total Marks: 1

If we delete node 2 from the given BST then which node will replace it?



Select the correct option

[Reload Math Equations](#)

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | 3 |
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/>            | 4 |
| <input type="radio"/>            | 5 |

[Click to Save Answer & Move to Next Question](#)

## Question # 9 of 10 ( Start time: 02:27:05 AM, 04 December 2023 )

Total Marks: 1

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

Select the correct option

- |                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | Stack       |
| <input type="radio"/>            | Linked List |
| <input checked="" type="radio"/> | Queue       |
| <input type="radio"/>            | Heap        |

[Click to Save Answer & Move to Next Question](#)

Question # 10 of 10 ( Start time: 02:27:28 AM, 04 December 2023 )

Total Marks: 1

What will be output of following code?

```
main() {  
    int x = 15;  
    int &y;  
    y = x;  
    y = 15;  
    cout<<x;  
}
```

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Compile time error
<input checked="" type="radio"/>	15
<input type="radio"/>	10
<input type="radio"/>	25

[Click to Save Answer & Move to Next Question](#)

Sufyan