



CS301 DATA STRUCTURE

Grand Quiz Solved 100 % Confirm
(Covid-19)

By Sonu Ilyas Mughal

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Question # 1 of 30 (Start time: 01:31:57 AM, 17 July 2020)

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

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | After all other entries that are greater than the new entry. |
| <input checked="" type="radio"/> | At the head |
| <input type="radio"/> | After all other entries that are smaller than the new entry. |
| <input type="radio"/> | At the tail |



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Question # 3 of 30 (Start time: 01:34:25 AM, 17 July 2020)

The next field in the last node in a singly-linked list is set to_____.

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | 0 |
| <input type="radio"/> | 1 |
| <input checked="" type="radio"/> | NULL |
| <input type="radio"/> | false |



Question # 4 of 30 (Start time: 01:35:00 AM, 17 July 2020)

Total Marks: 1

Consider the linked list having data [6, 72, 35, 65, 25] stored in it. While current pointer is pointing to memory location having 72 stored in it. After calling remove() function on the following linked list current point will point to memory location having value?

Select the correct option

- | | | |
|----------------------------------|----|----|
| <input checked="" type="radio"/> | 6 | // |
| <input type="radio"/> | 35 | // |
| <input type="radio"/> | 65 | // |
| <input type="radio"/> | 25 | // |



Question # 5 of 30 (Start time: 01:36:20 AM, 17 July 2020)

For a complete binary tree, the depth is calculated as _____

Select the correct option

- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | $\log_2 (\text{number of nodes} + 1) - 1$ |
| <input type="radio"/> | $\log_2 (\text{number of nodes} + 1) + 1$ |
| <input type="radio"/> | $\log_2 (\text{number of nodes} - 1) - 1$ |
| <input type="radio"/> | $\log_2 (\text{number of nodes} - 1) + 1$ |



Question # 6 of 30 (Start time: 01:37:26 AM, 17 July 2020)

If we write functions for recursive and non recursive inorder traversal method of BST, what will be the difference between its functions prototypes?

Select the correct option

- Different return types
- Different function names
- Different arguments list
- Nothing will be different



Question # 8 of 30 (Start time: 01:39:59 AM, 17 July 2020)

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

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | One |
| <input checked="" type="radio"/> | Two |
| <input type="radio"/> | Three |
| <input type="radio"/> | Four |



Question # 10 of 30 (Start time: 01:41:51 AM, 17 July 2020)

Doubly Linked List always has _____ NULL pointer/s in a node.

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | One |
| <input checked="" type="radio"/> | Two |
| <input type="radio"/> | Three |
| <input type="radio"/> | Four |



Question # 11 of 30 (Start time: 01:42:46 AM, 17 July 2020)

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

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input checked="" type="radio"/> | True |
| <input type="radio"/> | False |
| <input type="radio"/> | In some cases |
| <input type="radio"/> | None of the given |



Question # 12 of 30 (Start time: 01:43:44 AM, 17 July 2020)

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

Select the correct option

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



Question # 13 of 30 (Start time: 01:45:05 AM, 17 July 2020)

Linked list is generally considered an example of _____ type of memory location.

Select the correct option

- | | |
|----------------------------------|-----------------------|
| <input type="radio"/> | Static |
| <input type="radio"/> | Compile time |
| <input checked="" type="radio"/> | Dynamic |
| <input type="radio"/> | None of given options |



Question # 14 of 30 (Start time: 01:45:59 AM, 17 July 2020)

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

Select the correct option

- The logical operator && cannot be used in a test condition
- The while loop is an exit-condition loop
- The test condition is always false
- The test condition is always true



Question # 15 of 30 (Start time: 01:46:26 AM, 17 July 2020)

Each node in singly linked list contains _____

Select the correct option

- | | |
|----------------------------------|--------------|
| <input checked="" type="radio"/> | One pointer |
| <input type="radio"/> | Two pointers |
| <input type="radio"/> | No pointer |
| <input type="radio"/> | NULL pointer |



Question # 16 of 30 (Start time: 01:46:41 AM, 17 July 2020)

Can we store elements with different data types in a single array?

Select the correct option

- | | |
|----------------------------------|---------------|
| <input type="radio"/> | Yes |
| <input checked="" type="radio"/> | No |
| <input type="radio"/> | In some cases |
| <input type="radio"/> | None of given |



Question # 17 of 30 (Start time: 01:46:59 AM, 17 July 2020)

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

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | True |
| <input checked="" type="radio"/> | False |
| <input type="radio"/> | In some cases |
| <input type="radio"/> | None of the given |



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Question # 18 of 30 (Start time: 01:47:16 AM, 17 July 2020)

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

Select the correct option

- | | |
|----------------------------------|----|
| <input type="radio"/> | 13 |
| <input checked="" type="radio"/> | 14 |
| <input type="radio"/> | 15 |
| <input type="radio"/> | 16 |



Question # 19 of 30 (Start time: 01:48:42 AM, 17 July 2020)

We allocate memory dynamically by using _____ operator.

Select the correct option

- | | |
|----------------------------------|-----------|
| <input type="radio"/> | this |
| <input checked="" type="radio"/> | new |
| <input type="radio"/> | increment |
| <input type="radio"/> | decrement |



When an executable program runs, it is loaded in the computer memory and becomes a _____.

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Thread |
| <input type="radio"/> | .h file |
| <input checked="" type="radio"/> | Process |
| <input type="radio"/> | None of the above |



Question # 21 of 30 (Start time: 01:49:52 AM, 17 July 2020)

A _____ model attempts to model a real-world phenomenon

Select the correct option

- | | |
|----------------------------------|------------|
| <input type="radio"/> | Physical |
| <input type="radio"/> | Logical |
| <input checked="" type="radio"/> | Simulation |
| <input type="radio"/> | Conceptual |



Question # 22 of 30 (Start time: 01:50:06 AM, 17 July 2020)

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

Select the correct option

- | | |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | Stack |
| <input type="radio"/> | Queue |
| <input type="radio"/> | Both of these |
| <input type="radio"/> | None of these |



Question # 23 of 30 (**Start time: 01:50:42 AM, 17 July 2020**)

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

Select the correct option

- | | |
|----------------------------------|--------|
| <input type="radio"/> | Remove |
| <input type="radio"/> | Next |
| <input checked="" type="radio"/> | Start |
| <input type="radio"/> | Back |



Question # 24 of 30 (Start time: 01:51:34 AM, 17 July 2020)

A template is a function or class that is written with a _____ data type.

Select the correct option

- | | |
|----------------------------------|--------------------|
| <input type="radio"/> | Specific |
| <input type="radio"/> | Definite |
| <input checked="" type="radio"/> | Generic |
| <input type="radio"/> | None of the above. |



Question # 26 of 30 (Start time: 01:53:42 AM, 17 July 2020)

The function calls are made with the help of_____.

Select the correct option

- | | |
|----------------------------------|-----------------|
| <input checked="" type="radio"/> | Stack |
| <input type="radio"/> | Heap |
| <input type="radio"/> | Dynamic memory |
| <input type="radio"/> | External memory |



Question # 28 of 30 (Start time: 01:54:40 AM, 17 July 2020)

length() method of List class is used to:

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | Return the length of the array |
| <input checked="" type="radio"/> | Return the length of the list |
| <input type="radio"/> | Return the length of empty part of the array |
| <input type="radio"/> | Return the length of empty part of the list |



Question # 29 of 30 (Start time: 01:55:28 AM, 17 July 2020)

New items are added at the _____ of the stack.

Select the correct option

- | | |
|----------------------------------|--------|
| <input type="radio"/> | Bottom |
| <input type="radio"/> | Middle |
| <input type="radio"/> | Center |
| <input checked="" type="radio"/> | Top |



_____ is used for Reference variables in C++.

Select the correct option

- !
- @
- #
- &



Question # 9 of 30 (Start time: 01:40:46 AM, 17 July 2020)

A kind of expressions where the operator is present between two operands called _____ expressions.

Select the correct option

<input checked="" type="radio"/>	Infix
<input type="radio"/>	Postfix
<input type="radio"/>	Prefix
<input type="radio"/>	None of the above

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