

Review Test 4-Algorithm and Data Structures(30.11.2022)

Max:Marks-10

Time: 10 min

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Insertion of an element at the middle of a linked list requires the modification of how many pointers?

* 1 point

- ☒ 2
- ☐ 3
- ☐ 1
- ☐ 4

A linear collection of data elements where the linear node is given by means of pointer is called?

* 1 point

- ☒ Linked list
- ☐ Node list
- ☐ Primitive list
- ☐ None

In linked list each node contain minimum of two fields. One field is data field to store the data second field is?

* 1 point

- ☐ Pointer to character
- ☐ Pointer to integer
- ☒ Pointer to node
- ☐ Node



In doubly linked lists, traversal can be performed? *

1 point

- ☐ Only in forward direction
- ☐ Only in reverse direction
- ☒ In both directions
- ☐ None

Recursion in Java applies to.... *

1 point

- ☐ Constructors
- ☐ Variables
- ☒ Methods
- ☐ Blocks

In which of the below option is the correct way to insert a new node before a given node. [Between B and C insert new Node N] *

1 point

- ☐ `n.next = temp.next ; temp.prev.next = n ; temp.next = n ; n.prev = temp;`
- ☒ `n.next = temp.next ; temp.next.prev = n ; temp.next = n ; n.prev = temp;`
- ☐ `n.next = temp.next ; temp.next.prev = n ; temp.prev = n ; n.prev = temp;`



If a recursive function calling itself and that recursive call is the last statement in the function then it's known as

* 1 point

- ☐ Nested recursion
- ☐ Indirect recursion
- ☒ tail recursion
- ☐ Tree Recursion.

if a recursive function calling itself for more than one time then it's known as

* 1 point

- ☒ Tree Recursion.
- ☐ Tail recursion
- ☐ Nested recursion
- ☐ Indirect recursion

Which below method is most suitable for 'node with given value was not found'

* 1 point

- ☒

```
if(temp == null) { System.out.println("node with given value was not found");  
return; }
```
- ☐

```
if(temp != null) { System.out.println("node with given value was not found");  
return; }
```



Java uses ___ type of memory to implement Recursion. *

1 point

- ☐ Heap
- ☒ Stack
- ☐ Register
- ☐ None

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