Question 1	1 / 1 pts
What is the need for a circular queue?	
Effective usage of memory	
Easier computations	
To delete elements based on priority	
Implement LIFO principle in queues	

Question 2	1 / 1 pts
Consider a circular queue of capacity (N-1) elements is implemented with an array of N elements. We are assur and deletion operations are carried out with using REAR and FRONT as array index variables, respectively. Initi	0
Full: (REAR+1)%N=FRONT and Empty: REAR==FRONT	
○ Full: (REAR+1)%N=FRONT and Empty: REAR==(FRONT+1)%N	
Full: REAR=FRONT and Empty: REAR==(REAR+1)%N	
○ Full: REAR==FRONTand Empty: (REAR+1)%N==FRONT	

Question 3	1 / 1 pts
Consider the following statements:	
(a) First-in-first out types of computations are efficiently supported by STACKS.	
(b) Implementing LISTS on linked lists is more efficient than implementing LISTS on an array for almost all the basic LIST	operations.
(c) Implementing QUEUES on a circular array is more efficient than implementing QUEUES on a linear array with two ind	lices.
(d) Last-in-first-out type of computations are efficiently supported by QUEUES.	
b and c are correct	
o a and b	
○ c and d	
○ a and d	

, }	count; return ele;
ø dequeue	
o enqueue	
Орор	
push	

```
What is the functionality of the following code?

public void function(Node node)
{
    if(size == 0)
        head = node;
    else
    {
        Node temp.cur
        for(cur = head; (temp = cur.getNext())!=null; cur = temp);
        cur.setNext(node);
    }
    size++;
}

Inserting a node at the end of the list

Deleting a node at the beginning of the list

Deleting a node at the end of the list
```

Question 6	1 / 1 pts
The number of edges from the root to the node is called of that node.	
© Depth	
○ Length	
○ Width	
O Height	

Question 7	1 / 1 pts
The number of edges from the node to the deepest leaf is called of the tree.	
height	
O depth	
○ length	
○ width	

Ouestion 8 1/1 pts

Augustion o	
Linked list is considered as an example of type of memory allocation	
Dynamic	
○ Static	
O Compile time	
O Неар	

Question 9	1 / 1 pts
What does the following function do for a given Linked List with first node as head?	
void fun(struct node* head)	
[
if(head == NULL)	
return;	
fun(head->next);	
printf("%d ", head->data);	
}	
Prints all nodes of linked list in reverse order	
Prints all nodes of linked lists	
Prints alternate nodes of Linked List	
Prints alternate nodes in reverse order	

Question 10	1 / 1 pts
In a full binary tree if there are L leaves, then total number of nodes N are?	
® N = 2*L − 1	
○ N = 2*L	
○ N = L + 1	
○ N = L - 1	