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Q2-Dec21-S8

1 message

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Sun, Dec 19, 2021 at 12:32 PM

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Q2-Dec21-S8

Time: 10 Minutes Mark: 15

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Enter your NSU ID: *	
1921079642	
Enter your Name: *	
Mosroor Mofiz Arman	
Enter your Section: *	
08	

MCQ Questions

How to access the elements of a linked list?			
0	Randomly		
•	Sequentially		
0	Exponentially		
0	None of the above		
A variant of the linked list where none of the nodes contains NULL pointer is called			
•	Circular linked list		
0	Doubly linked list		
0	Multiway linked list		
0	None of the above		
Which of the following data structure is needed to evaluate a postfix expression?			
0	Неар		
0	Tree		
•	Stack		
0	Queeu		
True	True/False: Linked list can be implemented without dynamic memory allocation.		
0	TRUE		
•	FALSE		

True/False: Stack data structure is used to implement a recursive function, where each call to function must return to the immediate last call.

- TRUE
- FALSE

What is the complexity of the following code fragment?

```
int x = 0, i = N;
while (i > 0)
\begin{cases} x += i; \\ i /= 2; \end{cases}
```

- O(logN)
- O(N)
- O(NlogN)
- None of the above

Each node in a linked list contains a minimum of two fields, one field is data field and another field is a pointer to point ______ .

- Next data item
- Next node
- The starting node of the list
- None of the above

While compared with arrays, the linked lists data structure offers significant savings in

Memory utilization

	Computational time
•	Both Memory utilization and computational time
0	None of the above
True	/False: Linked lists are examples of compile-time memory allocation.
•	True
0	False
	/False: In the linked list implementation of the stack, the starting node of the orresponds to the top of the stack.
	True
\bigcirc	False
In the	e linked list implementation of the queue, where will be a new item inserted? At the start of the list At the end of the list At the middle of the list None of the above
	t is the time complexity of Inserting an item in a Queue that is implemented ugh linked list?
0	O(logn)
0	O(1)
•	O(n)
\bigcirc	None of the above

What is the time complexity of Inserting an item in the middle of a Linked List?		
O(logn)		
O(1)		
O(n)		
None of the above		
What is the time complexity of deleting at end from a singly-linked list?		
O(logn)		
O(1)		
O(n)		
None of the above		
If the elements "P", "Q", "R", "S" and "T" are inserted in a queue sequentially, and are removed one at a time, in what order will they be removed?		
PQRST		
○ TSRQP		
O TPQRS		
SRQPT		

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