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Unattempted Attempted 00:08:18

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 1

Which of the following is NOT an advantage of linked lists?

Options:

- Dynamic size
- Random access
- Efficient insertions/deletions
- Nodes can contain different data types (in certain languages)

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Unattempted Attempted 00:08:07

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 2

Which of the following statements is true about linked lists?

Options:

- They have a fixed size.
- They are always sorted.
- They are implemented using arrays.
- They can grow and shrink dynamically.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 3

Which operation can be performed more efficiently in a doubly linked list compared to a singly linked list?

Options:

- Traversing the list
- Searching for a node
- Deleting a specific node
- Inserting a node at the beginning

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Unattempted Attempted 00:07:41

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 3

Which operation can be performed more efficiently in a doubly linked list compared to a singly linked list?

Options:

- Traversing the list
- Searching for a node
- Deleting a specific node
- Inserting a node at the beginning

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Unattempted Attempted 00:07:37

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 4

What is a primary advantage of using a doubly linked list over a singly linked list?

Options:

- It is faster to search.
- It uses less memory
- It is easier to implement
- It allows traversal in both directions.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 5

To delete the first node of in a singly linked list, which of the following steps is required?

Options:

- Set the head pointer to null
- Change the head pointer to point to the second node
- Traverse the list to find the last node
- Nothing, it iss automatically handled

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 6

What is the time complexity to search an element in a singly linked list?

Options:

- O(1)
- O(log n)
- O(n)
- O(n^2)

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 7

In a circular queue, when the rear pointer reaches the end of the queue and there are empty spaces at the front, what happens?

Options:

- (●) It goes back to the start.
- ( ) It stays at the end
- ( ) It causes an overflow
- ( ) It resets the queue

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 8

What is the time complexity for inserting a node at the beginning of a doubly linked list?

Options:

- (●) O(1)
- ( ) O(log n)
- ( ) O(n)
- ( ) O(n^2)

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 9

If a queue has size of 5 elements and currently 3 elements are added to it, what is the maximum number of elements it can enqueue?

Options:

- 1
- 2
- 3
- 5

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 10

What is the condition to check for queue full, in a circular queue implemented using an array of n elements?

Options:

- rear == n - 1
- front == (rear + 1) % n
- rear == (front - 1) % n
- front == rear

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1 2 3 4 5 6 7 8 9 10 **11** 12 13 14 15

Question No: 11

What is the main principle that defines a queue?

Options:

- Sorted Order
- Random Access
- First In, First Out (FIFO)
- Last In, First Out (LIFO)

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Unattempted Attempted 00:07:16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 12

What is the time complexity to push an element on a stack?

Options:

- (●) O(1)
- ( ) O(log n)
- ( ) O(n)
- ( ) O(n^2)

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Unattempted Attempted 00:07:13

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 13

Which of the following statements is true for arrays?

Options:

- Arrays can easily grow or shrink in size
- Arrays allow for quick insertions and deletions at any position
- The size of an array must be defined at the time of declaration
- Arrays can store elements of different data types

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Unattempted Attempted 00:07:00

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 14

What is the time complexity to inserting an element at the beginning of an array?

Options:

- O(1)
- O(log n)
- O(n)
- O(n^2)

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Unattempted Attempted 00:06:58

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question No: 15

What is the time complexity for accessing an element in an array by its index?

Options:

- (●) O(1)
- ( ) O(log n)
- ( ) O(n)
- ( ) O(n^2)

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