

Stack And Queue Job Interview Questions And Answers



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Stack And Queue Interview Questions And Answers Guide.

Question - 1:

Do you know what is a circular singly linked list?

Ans:

In a circular singly linked list, the last node of the list is made to point to the first node. This eases the traveling through the list..

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Question - 2:

Tell me what are priority queues?

Ans:

A priority queue is essentially a list of items in which each item has associated with it a priority. Items are inserted into a priority queue in any, arbitrary order. However, items are withdrawn from a priority queue in order of their priorities starting with the highest priority item first.

Priority queues are often used in the implementation of algorithms

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Question - 3:

Explain stacks and queues in detail?

Ans:

A stack is a data structure based on the principle Last In First Out. Stack is container to hold nodes and has two operations - push and pop. Push operation is to add nodes into the stack and pop operation is to delete nodes from the stack and returns the top most node.

A queue is a data structure based on the principle First in First Out. The nodes are kept in an order. A node is inserted from the rear of the queue and a node is deleted from the front. The first element inserted in the first element first to delete.

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Question - 4:

Tell me how to implement queue using stack?

Ans:

A queue can be implemented by using 2 stacks:-

1. An element is inserted in the queue by pushing it into stack 1
2. An element is extracted from the queue by popping it from the stack 2
3. If the stack 2 is empty then all elements currently in stack 1 are transferred to stack 2 but in the reverse order
4. If the stack 2 is not empty just pop the value from stack 2.

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Question - 5:

Can you explain queue operation?

Ans:

Queue is a data structure that follows First in First out strategy.

Queue Operations:

- Push " Inserts the element in the queue at the end.
- Pop " removes the element out of the queue from the front
- Size " Returns the size of the queue
- Front " Returns the first element of the queue.
- Empty " to find if the queue is empty.

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Question - 6:

Can you please explain stack operation?



Ans:

Stack is a data structure that follows Last in First out strategy.

Stack Operations:-

Push " Pushes (inserts) the element in the stack. The location is specified by the pointer.

Pop " Pulls (removes) the element out of the stack. The location is specified by the pointer

Swap: - the two top most elements of the stack can be swapped

Peek: - Returns the top element on the stack but does not remove it from the stack

Rotate:- the topmost (n) items can be moved on the stack in a rotating fashion

A stack has a fixed location in the memory. When a data element is pushed in the stack, the pointer points to the current element.

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