

Quiz Two
Datastructures
Stacks and Queue

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15-Oct-2022

Question 1

Stack can be implemented using — and — ?

Options:

1. Array and Binary Tree
2. Linked List and Graph
3. Array and Linked List
4. Queue and Linked List

Question 2

When a resource is shared among multiple consumers which of the following data structure can be used to avoid confusion?

Options:

1. Stack
2. Array
3. Queue
4. All of the Above

Question 3

Array implementation of Stack is not dynamic, which of the following statements supports this argument?

Options:

1. Space allocation for array is fixed and cannot be changed during run-time
2. User unable to give the input for stack operations
3. A runtime exception halts execution
4. Improper program compilation

Question 4

Which of the following name does not relate to stacks?

Options:

1. FIFO lists
2. LIFO lists
3. Piles
4. Push Down Lists

Question 5

Circular queue is also known as

Options:

1. Standard Buffer
2. Cyclic Buffer
3. Ring Buffer
4. Radius Buffer

Question 6

In which of the datastructure elements can be inserted or deleted from both the ends but not in the middle.

Options:

1. Stack
2. Queue
3. Priority queue
4. Deque

Question 7

Which of the following uses FIFO method

Options:

1. Dequeue
2. Linear Queue
3. Circular Queue
4. Both B&C

Question 8

Find Infix Expression for the given postfix expression. $ABCD * -E / +F + GH / -$

Options:

1. $A / ((B - C * D) + E) + F - G / H$
2. $A + ((B - C * D) / E) + F - G / H$
3. $A + ((B - C * E) / D) + F - G / H$
4. $A + ((B - C * D) / E) + F / G - H$

Question 9

Time Complexity of search operation on priority queue is?

Options:

1. $O(1)$
2. $O(n-1)$
3. $O(n)$
4. $O(\log n)$

Question 10

Real life Application of Queue:

Options:

1. Car lined up at toll Gate.
2. Luggage Kept on conveyer belts in Airport.
3. People moving on an escalator. First step in will be the First step out.
4. All of the these