DSPM-SET 2 (20UCS120 - 20UCS193) and (20UICS081 - 20UICS175)

chiradeep13@gmail.com Switch accounts

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Multiple Choice Questions

When does the ArrayIndexOutOfBoundsException occur? 2 points

- ○ Compile-time
- ◉ Run-time
- ○ Not an error
- ○ Not an exception at all

Clear selection

Which data structure can be used to test a palindrome? 2 points

- ○ Tree
- ○ Structure
- ◉ Stack
- ○ Queue

Clear selection

Clear selection

Linked list data structure offers considerable saving in _____ 2 points

- ○ Computational Time
- ○ Space Utilization
- ◉ Space Utilization and Computational Time
- ○ Speed Utilization

Clear selection

If the elements “A”, “B”, “C” and “D” are placed in a queue and are deleted one at a time, in what order will they be removed? 2 points

- ◉ ABCD
- ○ DCBA
- ○ DCAB
- ○ ABDC

Clear selection

Entries in a stack are “ordered”. What is the meaning of this statement? 2 points

- ○ A collection of stacks is sortable
- ○ Stack entries may be compared with the ‘<‘operation
- ○ The entries are stored in a linked list
- ◉ There is a Sequential entry that is one by one

Clear selection

Which of the following statement(s) about stack data structure is/are NOT correct? 2 points

- ○ Linked List are used for implementing Stacks
- ○ Top of the Stack always contain the new node
- ◉ Stack is the FIFO data structure
- ○ Null link is present in the last node at the bottom of the stack

Clear selection

Which is the most appropriate data structure for reversing a word? 2 points

- ○ queue
- ◉ stack
- ○ tree
- ○ graph

Clear selection

Given pointer to a node X in a singly linked list. Only one pointer is given, pointer to head node is not given, can we delete the node X from given linked list? 2 points

- ◉ Possible if X is not last node
- ○ Possible if size of linked list is even
- ○ Possible if size of linked list is odd
- ○ Possible if X is not first node

Possible if X is not first node

Clear selection

Circular Queue is also known as _____ 2 points

- (●) Ring Buffer
- ( ) Square Buffer
- ( ) Rectangle Buffer
- ( ) Curve Buffer

Clear selection

In a circular queue, how do you increment the rear end of the queue? 2 points

- ( ) rear++
- (●) (rear+1) % CAPACITY
- ( ) (rear % CAPACITY)+1
- ( ) rear--

Clear selection

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