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| **Started on** | Tuesday, 2 July 2024, 3:44 PM |
| **State** | Finished |
| **Completed on** | Tuesday, 2 July 2024, 3:54 PM |
| **Time taken** | 10 mins 16 secs |
| **Grade** | **4** out of 10 (**40**%) |

**Question 1**

Complete

Mark 0 out of 1

In a linear search algorithm, worst case occur.

- a. If the key element is exist at first position in the list.
- b. If the key element is exist at last position in the list.
- c. If the key element does not exist in the list.
- d. If the key element either exists at last position or does not exist in the list.

**Question 2**

Complete

Mark 1 out of 1

In binary search algorithm after every iteration search space is reduced by

- a. n
- b. n-1
- c. n/2
- d. 2n

**Question 3**

Complete

Mark 1 out of 1

In Which sorting algorithm elements which are at two consecutive positions get compared.

- a. Selection Sort
- b. Bubble Sort
- c. Insertion Sort
- d. None Of These

**Question 4**

Complete

Mark 0 out of 1

The postfix form of the expression (A+ B)*(C*D- E)*F / G is?

- a. AB+ CD*E - FG /**
- b. AB + CD* E - F **G /
- c. AB + CD* E - *F *G /
- d. AB + CDE * - * F *G /

**Question 5**

Complete

Mark 0 out of 1

What is an advantage of the heap over a stack.

- a. The heap is more flexible than the stack.
- b. Memory space for the heap can be dynamically allocated and de-allocated as needed.
- c. The memory of the heap can at times be slower when compared to that stack.
- d. A and B.

**Question 6**

Complete

Mark 0 out of 1

What is the best time complexity of bubble sort?

- a. O[No]^2
- b. O[No] log n
- c. O[No]
- d. O[No] (Log n)^2

**Question 7**

Complete

Mark 0 out of 1

Which of the following condition is used to traverse the list till second last node SCLL?

- a. trav != NULL
- b. trav->next != NULL
- c. trav->next->next != NULL
- d. trav->next->next != head

**Question 8**

Complete

Mark 1 out of 1

Which of the following is true about linked list implementation of queue?

a. In push operation,if new nodes are inserted at the beginning of linked list,then in pop operation,nodes must be removed from end.
b. In push operation, if new nodes are inserted at the end of linked list, then in pop operation, nodes must be removed from beginning.
c. Queue data structure can be used to implement least recently used (LRU) page fault algorithm and Quick short algorithm.
d. All of the above

**Question 9**

Complete

Mark 0 out of 1

Which of the following statement is false about singly linear linked list?

a. In a SLLL, traversal can be done only in a forward direction.
b. In a SLLL, add and delete node at last position operations takes O[No] time.
c. In SLLL, add and delete node at first position operations takes O(1) time.
d. In SLLL, previous node of any node can be accessed from it.

**Question 10**

Complete

Mark 1 out of 1

_____ form of access is used to add and remove nodes from a queue.

a. LIFO, Last In First Out
b. FIFO, First In First Out
c. Both LIFO & FIFO
d. None of these