Data-Structures-and-Algorithms/Linked-Lists

1.node.next -> node.next.next; will make

a. node.next inaccessible

b. node.next.next inaccessible

c. this node inaccessible

d. none of the above

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Answer: (a).node.next inaccessible

2.A circular linked list can be used for

a. Stack

b. Queue

c. Both Stack & Queue

d. Neither Stack or Queue

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Answer: (c).Both Stack & Queue

3. In doubly linked lists

a. a pointer is maintained to store both next and previous nodes.

b. two pointers are maintained to store next and previous nodes.

c. a pointer to self is maintained for each node.

d. none of the above.

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Answer: (b).two pointers are maintained to store next and previous nodes.

4.………… is very useful in situation when data have to stored and then retrieved in reverse order.

a. Stack

b. Queue

c. List

d. Link list

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Answer: (a).Stack

5.The advantage of …………….. is that they solve the problem if sequential storage representation. But disadvantage in that is they are sequential lists.

a. Lists

b. Linked Lists

c. Trees

d. Queues

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Answer: (b).Linked Lists

6.There is an extra element at the head of the list called a ……….

a. Antinel

b. Sentinel

c. List header

d. List head

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Answer: (b).Sentinel

7.Each node in a linked list has two pairs of ………….. and ……………….

a. Link field and information field

b. Link field and avail field

c. Avail field and information field

d. Address field and link field

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Answer: (a).Link field and information field

8.The disadvantage in using a circular linked list is …………………….

a. It is possible to get into infinite loop

b. Last node points to first node.

c. Time consuming

d. Requires more memory space

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Answer: (a).It is possible to get into infinite loop

9.A linear list in which each node has pointers to point to the predecessor and successors nodes is called as

a. Singly Linked List

b. Circular Linked List

c. Doubly Linked List

d. Linear Linked List

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Answer: (c).Doubly Linked List

10.Linked lists are best suited

a. for relatively permanent collections of data

b. for the size of the structure and the data in the structure are constantly changing

c. for both of above situation

d. for none of above situation

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Answer: (b).for the size of the structure and the data in the structure are constantly changing

11.The situation when in a linked list START=NULL is

a. underflow

b. overflow

c. housefull

d. saturated

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12. Which of the following is two way list?

a. grounded header list

b. circular header list

c. linked list with header and trailer nodes

d. none of above

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Answer: (d).none of above

13.In a circular linked list

a. Components are all linked together in some sequential manner.

b. There is no beginning and no end.

c. Components are arranged hierarchically.

d. Forward and backward traversal within the list is permitted.

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Answer: (b).There is no beginning and no end.

14.A linear collection of data elements where the linear node is given by means of pointer is called?

a. Linked list

b. Node list

c. Primitive list

d. None of the above

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Answer: (a).Linked list

15.Which of the following operations is performed more efficiently by doubly linked list than by singly linked list?

a. Deleting a node whose location in given

b. Searching of an unsorted list for a given item

c. Inverting a node after the node with given location

d. Traversing a list to process each node

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Answer: (a).Deleting a node whose location in given

16.What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list?

a. O(1)

b. O(n)

c. θ (n)

d. θ (1)

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Answer: (c).θ (n)

17. A variant of linked list in which last node of the list points to the first node of the list is?

a. Singly linked list

b. Doubly linked list

c. Circular linked list

d. Multiply linked list

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Answer: (c).Circular linked list

18. In doubly linked lists, traversal can be performed?

a. Only in forward direction

b. Only in reverse direction

c. In both directions

d. None of the above

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Answer: (c).In both directions

19. What kind of linked list is best to answer question like “What is the item at position n?”

a. Singly linked list

b. Doubly linked list

c. Circular linked list

d. Array implementation of linked list

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Answer: (d).Array implementation of linked list

20. A variation of linked list is circular linked list, in which the last node in the list points to first node of the list. One problem with this type of list is?

a. It waste memory space since the pointer head already points to the first node and thus the list node does not need to point to the first node.

b. It is not possible to add a node at the end of the list.

c. It is difficult to traverse the list as the pointer of the last node is now not NULL

d. All of above

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Answer: (c).It is difficult to traverse the list as the pointer of the last node is now not NULL

31. The last node of the singly-linked list contains\_\_\_\_\_\_\_\_\_\_.

a. Info

b. NULL

c. Next

d. None of the above

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Answer: (b).NULL

32. A linked list contains a list pointer variable \_\_\_\_\_that stores the address of the first node of the list.

a. Start

b. NULL

c. Next

d. Empty list

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Answer: (a).Start

33. To maintain a linked list in memory, how many parallel arrays of equal size are used?

a. One

b. Two

c. Three

d. Four

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Answer: (b).Two

34. As memory is allocated dynamically to a linked list, a new node can be inserted anytime in the list. For this, the memory manager maintains a special linked list known as\_\_\_\_\_\_\_\_\_\_\_.

a. Free pool

b. Memory bank

c. Free storage list

d. All of the above

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Answer: (c).Free storage list

35.While creating a linked list or inserting an element into a linked list, whenever a request for the new node arrives, the memory manager searches through the ------------for the block of desired size.

a. Free pool

b. Memory bank

c. Free storage list

d. None of the above

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Answer: (c).Free storage list

36. What does creating a node mean?

a. Defining its structure

b. Allocating memory to it

c. Initialization

d. All of the above

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Answer: (d).All of the above

37. \_\_\_\_\_\_\_\_a list means accessing its elements one by one to process all or some of the elements.

a. Traversing

b. Creating

c. Linking

d. None of the above

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Answer: (a).Traversing

38. Searching a value (say, item) in a linked list means finding the position of the node, which stores \_\_\_\_\_\_\_\_\_\_\_ as its value?

a. node

b. item

c. info

d. None of the above

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Answer: (b).item

39. A situation where the user tries to delete a node from an empty linked list is termed as\_\_\_\_\_\_\_\_\_\_\_.

a. Underflow

b. Overflow

c. Pointers

d. None of the above

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Answer: (a).Underflow

40.To delete a node from the end of a linked list, the list is traversed up to the last \_\_\_\_\_\_.

a. Pointer

b. Node

c. List

d. None of the above

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Answer: (b).Node

41. Since a doubly-linked list allows traversing in both the forward and backward directions, it is also referred to as a\_\_\_\_\_\_\_\_\_\_\_.

a. Multi-way list

b. One-way list

c. Two-way list

d. None of the above

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Answer: (c).Two-way list