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Home » Data Structures and Algorithms Questions and Answers » 100 TOP DATA STRUCTURES and ALGORITHMS Multiple Choice Questions and Answers

100 TOP DATA STRUCTURES and ALGORITHMS Multiple Choice Questions and Answers

Posted on March 13, 2017 by engineer 46
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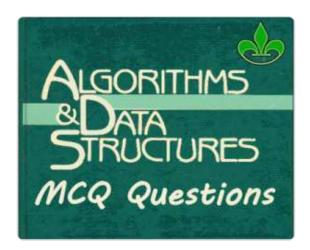
1Questions and Answers

2 MCQ PDF

<u>Data Structures and Algorithms Multiple</u> <u>Choice Questions and Answers :-</u>

- 1. Which if the following is/are the levels of implementation of data structure
- A) Abstract level
- B) Application level
- C) Implementation level
- D) All of the above
- 2. A binary search tree whose left subtree and right subtree differ in hight by at most 1 unit is called
- A) AVL tree

- B) Red-black tree
- C) Lemma tree
- D) None of the above
- 3. level is where the model becomes compatible executable code
- A) Abstract level
- B) Application level
- C) Implementation level
- D) All of the above



DATA STRUCTURES and ALGORITHMS Multiple Choice Questions and Answers

- 4. Stack is also called as
- A) Last in first out
- B) First in last out
- C) Last in last out
- D) First in first out
- 5. Which of the following is true about the characteristics of abstract data types?
- i) It exports a type.
- ii) It exports a set of operations
- A) True, False
- B) False, True

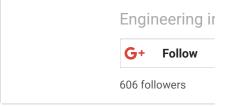


C) True, True
D) False, False
6 is not the component of data structure.
A) Operations
B) Storage Structures
C) Algorithms
D) None of above
7. Which of the following is not the part of ADT description?
A) Data
B) Operations
C) Both of the above
D) None of the above
8. Inserting an item into the stack when stack is not full is called Operation and deletion of item form the stack, when stack is not empty is calledoperation.
A) push, pop
B) pop, push
C) insert, delete
D) delete, insert
9 Is a pile in which items are added at one end and removed from the other.
A) Stack
B) Queue
C) List

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-	y useful in situation when data have n retrieved in reverse order.
A) Stack	
B) Queue	
C) List	
D) Link list	
11. Which data str	ructure allows deleting data elements ng at rear?
A) Stacks	
B) Queues	
C) Dequeues	
D) Binary search tre	e
	following data structure can't store neous data elements?
A) Arrays	
B) Records	
C) Pointers	
D) Stacks	
	a structure that organizes data n the supermarket, where the first first one out.
A) Queue linked l	ist
B) Stacks linked list	
C) Both of them	
D) Neither of them	
14. Which of the f	following is non-liner data structure?
A) Stacks	

B) List

C) Strings
D) Trees
15. Herder node is used as sentinel in
A) Graphs
B) Stacks
C) Binary tree
D) Queues
16. Which data structure is used in breadth first search of a graph to hold nodes?
A) Stack
B) queue
C) Tree
D) Array
17. Identify the data structure which allows deletions at both ends of the list but insertion at only one end.
A) Input restricted dequeue
B) Output restricted qequeue
C) Priority queues
D) Stack
18. Which of the following data structure is non linear type?
A) Strings
B) Lists
C) Stacks
D) Graph
19. Which of the following data structure is linear type?

A) Graph
B) Trees
C) Binary tree
D) Stack
20. To represent hierarchical relationship between elements, Which data structure is suitable?
A) Dequeue
B) Priority
C) Tree
D) Graph
21. A directed graph is if there is a path from each vertex to every other vertex in the digraph.
A) Weakly connected
B) Strongly Connected
C) Tightly Connected
D) Linearly Connected
22. In the traversal we process all of a vertex's descendants before we move to an adjacent vertex.
A) Depth First
B) Breadth First
C) With First
D) Depth Limited
23. State True of False.
i) Network is a graph that has weights or costs associated with it.
ii) An undirected graph which contains no cycles is called a forest.

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iii) A graph is said to every pair of vertice	o be complete if there is no edge between s.
A) True, False, True)
B) True, True, Fa	ılse
C) True, True, True	

- D) False, True, True

24. Match the following.

- a) Completeness i) How long does it take to find a solution
- b) Time Complexity ii) How much memory need to perform the search.
- c) Space Complexity iii) Is the strategy guaranteed to find the solution when there in one.
- A) a-iii, b-ii, c-i
- B) a-i, b-ii, c-iii
- C) a-iii, b-i, c-ii
- D) a-i, b-iii, c-ii
- 25. The number of comparisons done by sequential search is
- A) (N/2)+1
- B) (N+1)/2
- C) (N-1)/2
- D) (N+2)/2
- 26. In, search start at the beginning of the list and check every element in the list.
- A) Linear search
- B) Binary search
- C) Hash Search
- D) Binary Tree search
- 27. State True or False.

i) Binary search is used for searching in a sorted array.	
ii) The time complexity of binary search is O(logn).	
A) True, False	
B) False, True	
C) False, False	
D) True, True	
28. Which of the following is not the internal sort?	
A) Insertion Sort	
B) Bubble Sort	
C) Merge Sort	
D) Heap Sort	
29. State True or False.	
i) An undirected graph which contains no cycles is called forest.	
ii) A graph is said to be complete if there is an edge between every pair of vertices.	
A) True, True	
B) False, True	
C) False, False	
D) True, False	
30. A graph is said to be if the vertices can be split into two sets V1 and V2 such there are no edges between two vertices of V1 or two vertices of V2.	
A) Partite	
B) Bipartite	
C) Rooted	
D) Bisects	

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31. In a queue, the initial values of front pointer f rare	
pointer r should be and respectively.	
A) o and 1	
B) o and -1	
C) -1 and o	
D) 1 and 0	
32. In a circular queue the value of r will be	
A) r=r+1	
B) r=(r+1)% [QUEUE_SIZE – 1]	
C) r=(r+1)% QUEUE_SIZE	
D) r=(r-1)% QUEUE_SIZE	
33. Which of the following statement is true?	
i) Using singly linked lists and circular list, it is not possible to traverse the list backwards.	
ii) To find the predecessor, it is required to traverse the list from the first node in case of singly linked list.	
A) i-only	
B) ii-only	
C) Both i and ii	
D) None of both	
34. 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

35. What will be the value of top, if there is a size of stack STACK_SIZE is 5
A) 5
B) 6
C) 4
D) None
36 is not the operation that can be performed on queue.
A) Insertion
B) Deletion
C) Retrieval
D) Traversal
37. There is an extra element at the head of the list called a
A) Antinel
B) Sentinel
C) List header
D) List head
38. A graph is a collection of nodes, called And line segments called arcs or that connect pair of nodes.
A) vertices, edges
B) edges, vertices
C) vertices, paths
D) graph node, edges
39. A is a graph that has weights of costs associated with its edges.
A) Network

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B) Weighted graph	
C) Both A and B	
D) None A and B	
40. In general, the more than	e binary search method needs no comparisons.
A) [log2n]-1	
B) [logn]+1	
C) [log2n]	
D) [log2n]+1	
41. Which of the fo	ollowing is not the type of queue?
A) Ordinary queue	
B) Single ended qu	ueue
C) Circular queue	
D) Priority queue	
42. The property of	of binary tree is
A) The first subset is	called left subtree
B) The second subtre	ee is called right subtree
C) The root cannot co	ontain NULL
D) The right subtr	ree can be empty
43. State true or fa	alse.
i) The degree of root	node is always zero.
ii) Nodes that are not nodes.	root and not leaf are called as internal
A) True, True	

B) True, False

C) False, True

D) False, False

44. Any node is the path from the root to the node is called

11) Duccessor Hour	A)	Successor	nod	e
--------------------	----	-----------	-----	---

- B) Ancestor node
- C) Internal node
- D) None of the above

45. State true of false.

- i) A node is a parent if it has successor nodes.
- ii) A node is child node if out degree is one.
- A) True, True
- B) True, False
- C) False, True
- D) False, False

46. is not an operation performed on linear list

- a) Insertion b) Deletion c) Retrieval d) Traversal
- A) only a,b and c
- B) only a and b
- C) All of the above
- D) None of the above
- 47. Which is/are the application(s) of stack
- A) Function calls
- B) Large number Arithmetic
- C) Evaluation of arithmetic expressions

D) All of the above

48. A is an acyclic digraph, which has only one node with indegree 0, and other nodes have indegree 1.
A) Directed tree
B) Undirected tree
C) Dis-joint tree
D) Direction oriented tree
49 Is a directed tree in which outdegree of each node is less than or equal to two.
A) Unary tree
B) Binary tree
C) Trinary tree
D) Both B and C
50. State true or false.
i) An empty tree is also a binary tree.
ii) In strictly binary tree, the out-degree of every node is either o or 2.
A) True, False
B) False, True
C) True, True
D) False, False
51. Which of the following data structures are indexed structures?
A. Linear arrays
B. Linked lists
C. Queue
D. Stack

52. Which of the following data structure store the homogeneous data elements?

Α.	Arrays
----	--------

B. Records

- C. Pointers
- D. Lists
- 53. When new data are to be inserted into a data structure, but there is not available space; this situation is usually called
- A. Underflow
- **B.** overflow
- C. houseful
- D. saturated
- 54. A data structure where elements can be added or removed at either end but not in the middle is called ...
- A. linked lists
- B. stacks
- C. queues
- D. dequeue
- 55. Operations on a data structure may be
- A. creation
- B. destruction
- C. selection
- D. all of the above
- 56. The way in which the data item or items are logically related defines
- A. storage structure
- B. data structure

7	7/17/2017 100 TOP DATA STRUCTURES and ALGORITHMS Multiple Choice C
	C. data relationship
	D. data operation
	57. Which of the following are the operations applicable an primitive data structures?
	A. create
	B. destroy
	C. update
	D. all of the above
	58. The use of pointers to refer elements of a data structure in which elements are logically adjacent is
	A. pointers
	B. linked allocation
	C. stack
	D. queue
	59. Arrays are best data structures
	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 non of above situation
	60. Which of the following statement is false?
	A. Arrays are dense lists and static data structure.
	B. Data elements in linked list need not be stored in adjacent

C. Pointers store the next data element of a list.

space in memory

D. Linked lists are collection of the nodes that contain information part and next pointer.

Data Structures and Algorithms Multiple Choice Ouestions and Answers :-

Questions and Answers :-
61. Which of the following data structure is non-linear type?
A) Strings
B) Lists
C) Stacks
D) Tree
62. Which of the following data structure is linear type?
A) Array
B) Tree
C) Graphs
D) Hierarchy
63. The logical or mathematical model of a particular organization of data is called a
A) Data structure
B) Data arrangement
C) Data configuration
D) Data formation
64. The simplest type of data structure is
A) Multidimensional array
B) Linear array
C) Two dimensional array
D) Three dimensional array
65. Linear arrays are also called
A) Straight line array

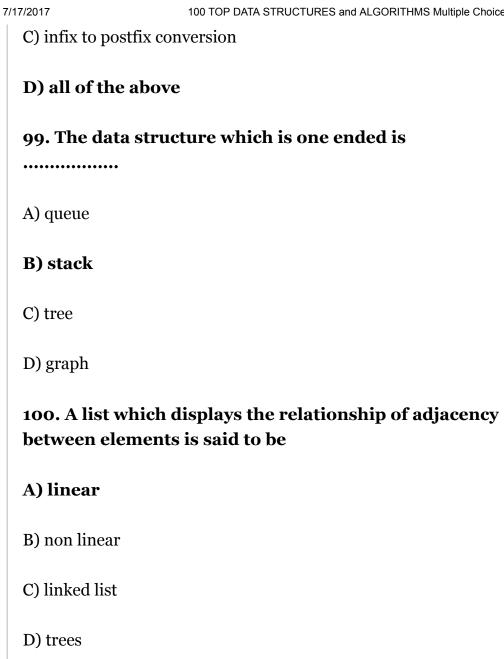
B) One-dimensional array
C) Vertical array
D) Horizontal array
66. Arrays are best data structures
A) For relatively permanent collections of data.
B) For the size of the structure and the data in the structure are constantly changing
C) For both of above situation
D) For none of the above
67. Which of the following data structures are indexed structures?
A) Linear arrays
B) Linked lists
C) Graphs
D) Trees
68. Each node in a linked list has two pairs ofand
A) Link field and information field
B) Link field and avail field
C) Avail field and information field
D) Address field and link field
69. A does not keep track of address of every element in the list.
A) Stack
B) String
C) Linear array
D) Queue

70. When does top value of the stack changes?
A) Before deletion
B) While checking underflow
C) At the time of deletion
D) After deletion
71. Which of the following data structure is non-linear type?
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A) Linear arrays
A) Linear arrays B) Linked lists
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B) Linked lists C) Graphs
B) Linked lists C) Graphs D) Trees 78. Each node in a linked list has two pairs of
B) Linked lists C) Graphs D) Trees 78. Each node in a linked list has two pairs of
B) Linked lists C) Graphs D) Trees 78. Each node in a linked list has two pairs of
B) Linked lists C) Graphs D) Trees 78. Each node in a linked list has two pairs of
B) Linked lists C) Graphs D) Trees 78. Each node in a linked list has two pairs of

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C) Linear array
D) Queue
80. When does top value of the stack changes?
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B) While checking underflow
C) At the time of deletion
D) After deletion
91. Arrays are best data structures
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
92. Which of the following data structure is not linear data structure?
A) Arrays
B) Linked lists
C) Both of the above
D) None of the above
93. 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

94. 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
95. A is a linear list in which insertions and deletions are made to from either end of the structure.
A) circular queue
B) random of queue
C) priority
D) dequeue
96. In a priority queue, insertion and deletion takes place at
A) front, rear end
B) only at rear end
C) only at front end
D) any position
97. The time complexity of quick sort is
A) O(n)
B) O(n2)
C) O(n log n)
D) O(log n)
98. Which of the following is an application of stack?
A) finding factorial
B) tower of Hanoi



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the options which are dark ones are answers?

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what is the best operation performed on linked list

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Thnxx in advance

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ankit sharma

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\square engineer

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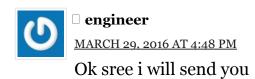
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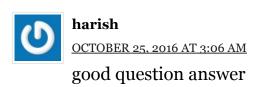
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