DATA STRUCTURE LAB
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1. Which of the following linked list below have last node of the list pointing to the first node?
circular doubly linked list
o circular linked list
circular singly linked list
odoubly linked list
Clear selection

В

2. A tree is a tree where for each parent node, there is only one associated child node		
balanced binary tree		
rooted complete binary tree		
complete binary tree		
o degenerate tree		
Clear selection		
3. Which of the following ways is a pre-order traversal?		
Root->left sub tree-> right sub tree		
Root->right sub tree-> left sub tree		
right sub tree-> left sub tree->Root		
left sub tree-> right sub tree->Root		
Clear selection		
4. Which data structure is mainly used for implementing the recursive algorithm?		
Queue		
Stack		
C Linked list		
O Binary tree		
Clear selection		

5. Which of the following principle is used if two elements in the priority queue have the same priority?		
O LIFO		
FIFO		
C Linear tree		
None of the above		
Clear selection		
6. Which one of the following is the overflow condition if a circular queue is implemented using array having size MAX?		
rear= MAX-1		
o rear=MAX		
front=(rear+1) mod max		
None of the above		
Clear selection		
7. A list of elements in which enqueue operation takes place from one end, and dequeue operation takes place from one end is		
O Binary tree		
○ Stack		
Queue		
C Linked list		
Clear selection		

8. ADT is called as Abstract because
It is completely independent data type
It is collection of different data types
Implementation Details are hidden
None of these
Clear selection
9. If elements of the data structure forms a sequence of list then it is called as
Linear data structure
Non-primitive data structure
Primitive data structure
O None of these
Clear selection
10. What is the process of finding the location of a given data element in the data structure called?
O Deletion
Insertion
Searching
Traversing
Clear selection

11. What does the following function do for a given Linked List with first node as head? void fun1(struct node* head){ if(head == NULL) { return; } fun1(head->next); printf("%d ", head->data);}		
Prints all nodes of the linked list in reverse order		
Prints all nodes of the linked list		
Prints alternate nodes of the linked list		
Prints alternate nodes of the linked list in reverse order		
	Clear selection	
12. Which of the following c code is used to create new node?		
<pre>ptr = (NODE*)malloc(sizeof(NODE))</pre>		
ntr = (NODE*)mallog(NODE);		
<pre>ptr = (NODE*)malloc(NODE);</pre>		
ptr = (NODE*)malloc(NODE), ptr = (NODE*)malloc(sizeof(NODE*));		

!

Clear selection

a st	The following postfix expression with single digit operands in evaluated using tack 8 2 3 ^ / 2 3 8 + 5 1 * (. Note that ^ is the exponentiation operator. The top of elements of the stack after the first * is evaluated are
0	5,7
0	1,5
•	6,1
0	3,2
	Clear selection
14.	Given an integer array arr[], the ith element can be accessed by writing
0	*(arr+i)
0	*(i+arr)
0	arr[i]
•	All of the above
	Clear selection
15. \	What is the most suitable data structure for parentheses checking?
o	Stack
0	Queue
0	Array
0	Tree

16. If Selection Sort is applied on the given array A=[4, 6, 7, 5, 9, 3, 1,8, 2] then after first pass which will be the order?

- 1, 6, 7, 5, 9, 2, 4, 8, 3
- 1, 2, 7, 6, 9, 3, 4, 8, 5
- 1, 2, 7, 5, 9, 4, 8, 3, 6
- 1, 2, 7, 5, 9, 3, 4, 8, 6

Clear selection

- 17. A graph in which all vertices have equal degree is known as ____
- Regular Graph
- Multi Graph
- Complete Graph
- Simple Graph

Clear selection

- 18. To perform level-order traversal on a binary tree, which of the following data structure will be required?
- Hash Table
- Queue
- Binary Search Tree
- Stack

Clear selection

19. A binary tree in which all its levels except the last, have maxing nodes, and all the nodes in the last level have only one child it would have the tree	
Complete Binary Tree	
Threaded Tree	
M-way Search Tree	
Full Binary Tree	
	Clear selection
20. Which of the following is the infix expression? • A+B*C • +A*BC	
O ABC+*	
None of the above	
	Clear selection
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