Question bank DS

Q.1 Define Data structure & Explain classification of data structure in detail.

Q.2 Write operations of data structure.

Q.3 Explain Complexity Algorithm.

Q.4 What is linear array? Write a program to insert 9 elements in array & deleted from one number that index 5.

Q.5 Define searching & also write binary search algorithm. Write a program using two binary search methods.

Q.6 Explain sorting & write a program to sort number in ascending order using insertion sort.(write insertion sort algorithm)

Q.7 Explain Bubble sort and selection sort with theirs algorithm and also write on example for each method.

Q.6 Explain linked list & differentiate array and linked list.

Q.7 Write types of linked list, component of linked list & applications.

Q.8 Explain singly linked list & write a program using insertion operation with three conditions.

Q.9 How to search element in singly linked list.

Q.10 Explain doubly linked list with all operations.

Q.11 Write a program for insertion in circular linked list using singly linked list.

Q.12 Define stack & Explain Advantages & disadvantages of stack.

Q.13 Write a representation of stack using array with all operations of stack.

Q.14 Write a representation of using Linked list with all operations of stack.

Q.15 Differentiate between infix,postfix & prefix.

Q.16 Define term tree & Write terminology of trees with example.

Q.17 what is binary tree ? & write types of binary tree.

Q.18 write a program for how to traversal binary tree

Q.19 Explain binary search tree. & also find following tree is binary search tree or not.

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Q.20 How to insert newnode in binary search tree?