

1. Which of these best describes an array?
 - a. A data structure that shows a hierarchical behaviour
 - b. Container of objects of similar types
 - c. Arrays are immutable once initialised
 - d. Array is not a data structure

2. What are the advantages of arrays?
 - a. Objects of mixed data types can be stored
 - b. Elements in an array cannot be sorted
 - c. Index of first element of an array is 1
 - d. Easier to store elements of same data type

3. Process of inserting an element in stack is called _____
 - a. Create
 - b. Push
 - c. Evaluation
 - d. Pop

4. Process of removing an element from stack is called _____
 - a. Create
 - b. Push
 - c. Evaluation
 - d. Pop

5. Pushing an element into stack already having five elements and stack size of 5, then stack becomes
 - a. Underflow
 - b. Empty collection
 - c. Overflow
 - d. Garbage Collection

6. A _____ is a container for storing a collection of data records in which each record is associated with a unique key.
 - a. Map
 - b. Sets
 - c. Dictionary
 - d. List

7. LIFO means -----

- a.Link In First Out
- b.Last In First Out
- c.Least In First On
- d.Least In First Off

8.If the elements “A”, “B”, “C” and “D” are placed in a queue and are deleted one at a time, in what order will they be removed?

- a) ABCD
- b) DCBA
- c) DCAB
- d) ABDC

9.A Complexity of algorithm depends upon _____.

- a) Time only
- b) Space only
- c) both time and space
- d) None of these

10.What is a hash table?

- a) A structure that maps values to keys
- b) A structure that maps keys to values
- c) A structure used for storage
- d) A structure used to implement stack and queue

11. 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

12.Which nodes has same parent?

- a) root
- b) leaf
- c) siblings
- d) children

13. An expression tree is a kind of?

- a) Binary search tree
- b) Fibonacci tree
- c) Binary tree
- d) Treap

14. What are the disadvantages of arrays?

- a) Data structure like queue or stack cannot be implemented
- b) There are chances of wastage of memory space
- c) Index value of an array can be negative
- d) Elements are sequentially accessed

15. A binary tree whose every node has either zero or two children is called _____

- a) complete binary tree
- b) binary search tree
- c) extended binary tree
- d) null binary tree