

Quizzes: Chapter 12

1. In an abstract data type, _____.
 - a. the ADT implementation is known
 - b. the ADT implementation is hidden
 - c. the ADT public operations are hidden
 - d. Nothing is hidden

Correct Answer: (b)
2. A stack is a _____ structure.
 - a. FIFO
 - b. LIFO
 - c. DIFO
 - d. SIFO

Correct Answer: (b)
3. A(n) _____ list is also known as a queue.
 - a. LIFO
 - b. FIFO
 - c. unordered
 - d. ordered

Correct Answer: (b)
4. If A is the first data element input into a stack, followed by B, C, and D, then _____ is the first element to be removed.
 - a. A
 - b. B
 - c. C
 - d. D

Correct Answer: (d)

5. If A is the first data element input into a queue, followed by B, C, and D, then _____ is the first element to be removed.

- a. A
- b. B
- c. C
- d. D

Correct Answer: (a)

6. The pop operation _____ of the stack.

- a. deletes an item from the top
- b. deletes an item from the bottom
- c. inserts an item at the top
- d. inserts an item at the bottom

Correct Answer: (a)

7. The push operation _____ of the stack.

- a. deletes an item from the top
- b. deletes an item from the bottom
- c. inserts an item at the top
- d. inserts an item at the bottom

Correct Answer: (c)

8. In a binary tree, each node has _____ two subtrees.

- a. more than
- b. less than
- c. at most
- d. at least

Correct Answer: (c)

9. In preorder traversal of a binary tree, the _____.

- a. left subtree is processed first
- b. right subtree is processed first
- c. root is processed first
- d. the root is never processed

Correct Answer: (c)

10. In _____ traversal of a binary tree, the right subtree is processed last.
- a. preorder
 - b. inorder
 - c. postorder
 - d. any order

Correct Answer: (b)

11. In postorder traversal of a binary tree, the root is processed _____.
- a. first
 - b. second
 - c. last
 - d. after the left subtree

Correct Answer: (c)

12. In postorder traversal of a binary tree, the left subtree is processed _____.
- a. first
 - b. second
 - c. last
 - d. after the right subtree

Correct Answer: (a)

13. In _____ traversal of a binary tree, the left subtree is processed last.
- a. preorder
 - b. inorder
 - c. postorder
 - d. out of order

Correct Answer: (a)

14. In an inorder traversal of a binary tree, the root is processed _____.
- a. first
 - b. second
 - c. last

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d. two times

Correct Answer: (b)