

TUTORIAL SESSION Q&A

1. What is a stack? What are different operations in stack? -23761A5490
2. Give the major differences between Stack,Array and Linked list? -23761A5489
3. What is the difference between infix and postfix? What is the postfix value of expression (6\*(3-(2+4))).-23761A5496
4. Define single Linked list, double linked list,circular linked list.-23761A5482
5. Explain the major differences between double and circular linked lists-(23761A54A3)
6. When will we say the stack is full and is empty? - 23761A5470
7. What are the time and space complexities of stack operations using arrays?-(23761A54B2)
8. Explain the process of inserting and element at a given position in circular linked lists?-23761A54B6
9. What is illegal pointer accessing?(23761A54A9)
10. Write any three applications on double linked list based on daily basis….?-(23761A54C8)
11. Define any 3 stack operations with syntax-(23761A54A0)
12. Explain the process of insert at given position in doubly Linked list-(23761A5488)

11.In a stack, if a user tries to remove an element from an empty stack it is called \_\_explain-(23761A5473)

12.Find the time complexity push and Pop operation using

linked list?-(23761A54B9)

13.What is the principle followed in the Stack implementation?-(23761A54B9)

14. What is the significance of the top pointer in a stack?(23761A54C4)

15. Any two advantages of linked list?(23761A54C9)

16. What are the applications of stack? (23761A5477)

17. Why is stack known as LIFO?(23761A5497)

18. What is meant by stack overflow?(23761A5499)

19. Describe two different methods to implement stack data structures? (23761A5486)

20. What are advantages of stack?(23761A5494)

21. What are the limitations of stack ?(23761A5475)

22.what is the difference between stack and linked lists ?(23761A5484)

23.what happened when we delete the element from the stack and explain it with an example?(23761A5495)

24. What is real time use of linked lists?(23761A54C5)

25. What are the applications of a stack.What is a postfix expression ? (23761A5467)

26. Covert the following infix expression into postfix A+B-C\*D\*/FS(T-H)+Q. (23761A54B3)

27. What is the time complexity of the insertion of an element in the stack?-(23761A54C3)

23. Write the mathematical expressions and draw the graph of three asymptotic notations?-(23761A5478)

24.compare array vs linked list stack implementations ? –(23761A54B5)

25. Write the matching condition on balancing paranthesis?

What is the time complexity of balancing parentheses?-(23761A5471)

27.How is traversal done in a singly linked list?(23761A5491)

28.What are the differences between singly linked lists, doubly linked lists, and circular linked lists?(23761A5491)

29.Explain the binary search algorithm. What are its key requirements for implementation?(23761A54B

30.Discuss the time complexity of binary search and explain why it's more efficient than linear search for sorted arrays.(23761A54B8).

31.How can a stack be used to evaluate expressions?(23761A54D0)

32.write a function for single linked list..?(23761A54B7)How do you represent a stack in linked list? ….(23761A5480)

33.How does a circular linked list differ from a regular linked list and what are the some advantages and disadvantage of using a circular linked list?(23761A54D1)

34.write an algorithm for push operation using array (23761A54C7)

35.How did you represent a stack in linked lists?...(23761A5480)

36.What are the applications of linked lists (23761A5498)

37.Why do we need prefix and postfix notations?(23761A54C1)