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Krisoijn Van Der Capellen

Data Structures Multiple Choice Questions With Answers Introduction

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Intro

Which of the following is the advantage of the array data structure?

Which of the following highly uses the concept of an array?

Which of the following is the disadvantage of the array

Which one of the following is the size of int arr[9] assuming that int is of 4 bytes?

Which one of the following is the process of inserting an element in the stack?

When the user tries to delete the element from the empty stack then the condition is said to be a

If the size of the stack is 10 and we try to add the 11th element in the stack then the condition is known as

Which data structure is mainly used for implementing the recursive algorithm

Which data structure is required to convert the infix to prefix notation?

Which of the following is not the correct statement for a stack data structure?

If the elements 1, 2, 3 and 4 are added in a stack, so what would be the order for the removal?

The minimum number of stacks required to implement a stack

Which one of the following node is considered the top of the stack if the stack is implemented using the linked list?

Consider the following stack implemented using stack.

What is another name for the circular queue among the following options?

A list of elements in which enqueue operation takes place from one end, and dequeue operation takes place from one end is_

Which one of the following is the overflow condition if linear queue is implemented using an array with a size MAX SIZE?

Which one of the following is the overflow condition if a circular queue is implemented using array having size MAX?

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What is the maximum number of children that a binary tree node can have?

The following given tree is an example for?

How many common operations are performed in a binary tree?

What is the traversal strategy used in the binary tree?

How many types of insertion are performed in a binary tree?

What operation does the following diagram depict?

How many bits would a succinct binary tree occupy?

The average depth of a binary tree is given as?

How many orders of traversal are applicable to a binary tree (In General)? 3

Using what formula can a parent node be located in an array?

What is the time complexity of pre-order traversal in the iterative fashion?

In a full binary tree if number of internal nodes is I, then number of nodes N are?

What is the speciality about the inorder traversal of a binary search tree?

What is an AVL tree?

Why we need to a binary tree which is height balanced?

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Intro

Arrays

Linked Lists

HashMaps

Stacks

Queues

Trees

Graphs

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Q.1. Which one of the following is the size of int arr[5] assuming that int is of 4 bytes ? 1 25

How do you initialize an array in C?

In general, the index of the first element in an array is ?

Elements in an array are stored ?

Elements in an array are accessed?

Elements in a linked list are accessed?

In a circular linked list ? 1 Components are all linked together in some sequential manner. 2 There is no beginning and no end. 3 Components are arranged

In the stack process of inserting an

In the stack process of deleting an

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Intro

Lists

Arrays

Stacks

Cache

Conclusion

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Intro
in Linear Search after every iteration search space is reduced by
Binary Search is also called as A. Logarithmic Search
Average case time complexity of Binary Search is
Which of the following sorting algorithm is not Inplace.
Which of the following is an efficient sorting algorithm for larger input array.
Which of the following sorting algorithm do not follows divide-and-conquer strategy A. Quick Sort
in which of the following sorting algorithm elements which are at two consecutive positions gets compared for sorting.

Which of the following sorting algorithm is an adaptive. B. Insertion Sort C. Bubble Sort D. All of the above
The Best case complexity of linear search algorithm is
Binary search algorithm uses A. Linear way to search values B. Divide and conquer method C. Bubble sorting technique D. None of them

Which design algorithm is used for quick sort A. Divide and conqueror
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TECHNICAL \"C\"

What is the output of this program? #include void main()
What is the following function call mean? strcpy(s1, s2)
What will be the size of following union declaration? union test
What is the output of the following code? void maino
Question No.27 What will be the output. #include int main
What is the output of this code? #include void main()
int i = 20; printf(\"%x\", i); what is the output?
What is the output of this C code? void main()

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Introduction

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Questions on Array

Questions on Linked List

Questions on Stack

Questions on Queue

Questions on Tree

Questions on Graph

Questions on Algorithms

Math puzzle using Data Structures

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What is the difference between a File Structure and a Data Structure?

How does Binary Search work?

How are individual elements accessed in an array?

What is a queue in Data Structures?

What are multi-dimensional arrays?

Are linked lists Linear or Non-linear Data Structures?

What is a Binary Search Tree?

What is the difference between void and null in Data Structures?

What is dynamic memory management?

What is merge sort?

What is the meaning of Data Abstraction?

What is the meaning of a postfix expression in Data Structures?

What is the working of a selection sort?

What are signed numbers in Data Structures?

What Data Structures make use of pointers?

What is the use of dynamic Data Structures?

What is a priority queue?

Pointers allocate memory for data storage. True or False?

Differentiate between Linear and Non-linear Data Structures

What is the meaning of an AVL tree?

How does Huffman's algorithm work?

What are recursive algorithms?

How does bubble sort work?

What are the Data Structures that are used in DFS and BFS algorithms?

What is the working of postorder traversal in trees?

What are the disadvantages of implementing queues using arrays?

What is the use of void pointers?

Have you earned any sort of certification to improve your learning and implementation process?

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Which of these best describes an array?
How do you initialize an array in C?
How do you instantiate an array in Java?
Which of the following is a correct way to declare a multidimensional array in Java?
Which of the following concepts make extensive use of arrays?
What are the advantages of arrays?
What are the disadvantages of arrays?
Assuming int is of 4bytes, what is the size of int arr[15];?
In general, the index of the first element in an array is
Elements in an array are accessed
Which of the following is not a disadvantage to the usage of array?
What is the time complexity of inserting at the end in dynamic arrays?
What is the time complexity to count the number of elements in the linked list?
What is the space complexity for deleting a linked list?
Which of these is not an application of linked list?
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Term Push and Pop Is Related to Which of the Following Data Structure
Question What Is a Full Binary Tree
What Is the Advantage of Non-Linear Data Structure over a Linear Data Structure
Which of the Following Operations Is Performed More Efficiently by Doubly Linked List than by Singly Linked List
Choose the Data Structure That Can Be Used To Implement Queues
Which of the Following Condition Occurs When We Try To Delete a Node from a Linked List That Is Empty
Degree of the Root Node
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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 View Answer
Which of the following abstract data types can be used to represent a many relation? A Tree B. Plex C Graph
Which of the following is not an advantage of optimised bubble sort over other sorting techniques in case of sorted elements? a It is faster
Merge sort uses which of the following technique to implement sorting? a backtracking b greedy algorithm c

divide and conquer d dynamic programming

Which of the following method is used for sorting in merge sort? a merging b partitioning c selection

Choose the incorrect statement about merge sort from the following? a it is a comparison based sort b it is an adaptive algorithm c it is not an in place algorithm d it is stable algorithm

What is the advantage of bubble sort over other sorting techniques? a It is faster b Consumes less memory c

Detects whether the input is already Sorted All of the mentioned Answer

Where is linear searching used? a When the list has only a few elements b When performing a single search in an unordered list c Used all the time When the list has only a few elements and When performing a single search in an unordered list

Is there any difference in the speed of execution between linear search recursive vs linear search iterative? a Both execute at same speed b Linear search recursive is faster c Linear search/Iterative is faster d Cant be said Answer

What is the best case runtime of linear Search recursive algorithm on an ordered set of elements?

What is the average case time complexity of binary search using recursion?

Which of the following step is taken after finding an element having value greater than the element being searched? a linear search takes place in the forward direction b linear search takes place in the backward direction c binary search takes place in the forward direction d binary search takes place in a backward direction

The data structure required to check whether an expression contains balanced parenthesis is? a Stack

Which data structure is used for implementing recursion? a Queue b Stack

Which of the following application generally use a stack? a Parenthesis balancing program b Syntax analyser in compiler c Keeping track of local variables at run

Other names for the insertion and deletion operations in Stacks? a PUSH-insertion, POP-Deletion. b PUSH-Deletion, POP-Insertion c Both A and B are valid. d Only A is true Answer

The concept \"Pile of Plates\" is applicable in which one of the following a Stack b Queue c Linked list d Tree Answer: a

Which of the following is an application of stack? a finding factorial b tower of Hanoi c infix to postfix d all of the above

A data structure in which elements can be inserted or deleted at/from both the ends but not in the middle is? a Queue b Circular queue c Dequeue

Which one of the following is an application of Queue Data Structure? a When a resource is shared among multiple consumers b When data is transferred asynchronously (data not necessarily received at same rate as sent between two processes) c Load Balancing All of the above Ans:D

Which one of the following is an applications of Queue Data Structure? a When a resource is shared among multiple consumers b When data is transferred asynchronously between the two

Which of the following is not an advantage of trees? Hierarchical structure Faster search Router algorithms

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Intro

Which data structure is based on the concept of FIFO?

What will be the value of top?

What will be the value of front and rear?

If the last node in a list stores the address of first node in its address part, the list is a

Which of the statement is false about Linked List?

Which data structure is used to replace Recursion?

Which data structure is called Hierarchical data structure?

Which data structure does not
have any order of connections?

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