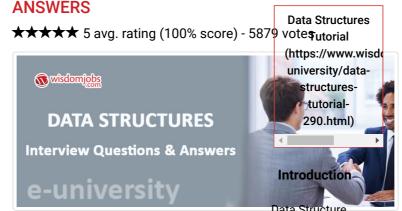


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DATA STRUCTURES INTERVIEW QUESTIONS &

Q



(https://www.wisdomjobs.com/e-

Are you searching for Data Structures job? A Data Structure in computer science is a kind of managing and structuring utatalin order to access it efficiently. Implementing data structure 7114.html) requires writing a set of procedures that are used in creating Linked Data Structure and managing instances of that structure. (Hobs programities niobs.com/eare present everywhere for this position. Data Stituctores job description might include having knowledge on concepts of 290/linked-datadata structures like linked list, union etc and feetmat designal methods and Object Oriented programming languages like C, C++, Java and SQL. Wisdomjobs created in terview questions

(https://www.wisdomjobs.com/e-exclusively for the candidates who are in search of job. If you university/dataare looking for job then go check out our Data Streeture ial-

interview questions and answers page to det more inct-datastructure-7117.html) information.

> Implicit Data Structure

Data Structures Interview Questions

(https://www.wisdomjobs.com/euniversity/data-

structures-tutorial-

Prev (https://www.wisdomjobs.com/e290Wienslitvit/dattastructures-tutorial-290/scene-grapht783047118.html)

Next (https://www.wisdomjobs.com/effinersity/datastructures-practice-tests-290-3279069

(https://www.wisdomjobs.com/e-

Data Structures Interview Questions university/datastructures-tutorial-290/compressed-

Question 1. What Is Data Structure? data-structure-

Answer: A data structure is a way of ordarhizing data that considers not only the items stored, Searalise at heir ucture relationship to each other. Advance knowledge about the university/data-



relationship between data items allows designing-tylorialefficient algorithms for the manipulation of data. structure-7120.html)

(https://www.wisdomiobs.com/) Question 2: What Are The Goals Of Data Structure? Static And Dynamic

Answer: It must rich enough in struct@eta6tredectshe Search for Jobs...

actual relationship of data in real world. The structure wisdomjobs.com/e-

Q

should be simple enough for efficient processing of data.

university/data

Question 3. What Does Abstract Data Type Westin? and

dvnamic-data-Data type is a collection of v operations on these values. Abstract data type refer to the mathematical concept that define the datartypere

It is a useful tool for specifying the logical the logical the logical through the log

university/datadata type.

structures-tutorial-ADT consists of two parts 290/persistent-datastructure-7122.html)

1) Values definition

Concurrent Data 2) Operation definition Structure

Example:-The value definition for the AD THE STANKAL wisdomjobs.com/e-

states that RATIONAL value consists of two file of the states are states that RATIONAL value consists of two files of the states are states and the states are states as the states are states are states as the states are states as the states are states as the states are states are states as the states are states structures-tutorialsecond doesn't equal to zero. 290/concurrent-data-

The operator definition for ADT RATIONAstrincalurd 328 tentral)

operation of creation (make rational) addition.

Abstract Data multiplication and test for equality. **Types**



Speak English Fluently

(https://www.wiskbrfijobsl.coith/enlir university/datastructures-tutorial-290/abstract-datatype-7124.html)

Question 4. What Is The Difference Between A Stack And (https://www.wisdomjobs.com/e-

An Array? university/datastructures-tutorial-

Answer: STACK: 290/list-7125.html)

i) Stack is a ordered collection of items.

ii) Stack is a dynamic object whose size is feel which wisdomjobs.com/echanging as items are pushed and popperhiversity/data-

iii) Stack may contain different data types: tutorial-

290/stack-7126.html) iv) Stack is declared as a structure containing an array to

What Is A Queue eger to indicate (https://www.wisdomjobs.com/ehold the element of the stack, and an int

the current stack top within the array. university/data-

structures-tutorial-ARRAY: 290/what-is-a-queue-

i) Array is an ordered collection of items. 7133.html)

ii) Array is a static object i.e. no of item is fixed and is

assigned by the declaration of the array. (https://www.wisdomjobs.com/euniversity/data-



iii) It contains same data types.

structures-tutorial-

iv) Array can be home of a stack i.e. array can be declared 7134.html)

(https://www.wisdogejehs.com/or maximum size of the stack.

Priority Queue

Question 5. What Do You Mean By Recursive Definition 2 omjobs.com/e-

Search for Jobs...

Answer: The definition which defines an object of terms structures-tutorial of simpler cases of itself is called recursive definition.

Question 6. What Is Sequential Search? 7135.html)

Answer: In sequential search each iteMPh the array is (https://www.wisdomjobs.com/e-until a match university/data-occurs. It is applicable to a table organized either as a linked list.

290/map-7136.html)



Bidirectional Map Speak English Fluently (https://www.wisdomjobs.com/e-Learn to Speak English Fluently with Onlir university/datastructures-tutorial-290/bidirectionalmap-7137.html) Q

Multimap

Question 7. What Actions Are Performed When A Function jobs.com/e-university/data-

Is Called?

structures-tutorial-290/multimap-7138.html)

i) arguments are passed.

ii) local variables are allocated and initialized

When a function is called

ii) transferring control to the function.

(https://www.wisdomjobs.com/e-

university/data-

Question 8. What Actions Are Performed Whether Thirdion 290/set-7139.html)

Returns?

Answer:

Answer:

i) Return address is retrieved (https://www.wisdomjobs.com/e-

Tree

ii) Function's data area is freed.

university/data-

iii) Branch is taken to the return address. structures-tutorial-

290/tree-7140.html)

Ouestion 9. What Is A Linked List?

Answer: A linked list is a linear collection of data elements, called nodes, where the linear artistication of data pointers. Each node has two parts first participant university/data-information of the element second part contains the structures-tutorial-address of the next node in the list.

Arrays



structure-7141.html) Part Time Jobs Available - Earn Rs Riwpleaഎioedepbs

(https://www.wisdo.mjobs.com/es.1 Limbersity/data-

structures-tutorial-Ad DailyUnlineJobs.com 290/row-major-order-7142.html)

Question 10. What Are The Advantages Of Linker List

Over Array (static Data Structure)?

(https://www.wisdomjobs.com/e-university/data-

Answer: The disadvantages of array are: ctures-tutorial-

290/dope-vector-

structures-tutorial-

Q

i) unlike linked list it is expensive to insert and delete (https://www.wisdomiobs.com/) elements in the array.

Iliffe Vector

ii) One can't double or triple the size of armay 35/it WCCWRiconjobs.com/e Search for Jobs... university/datablock of memory space.

> structures-tutorial-In linked list 290/iliffe-vector-

i) each element in list contains a field, called to time or pointer which contains the address of the mexticlement.

ii) Successive element's need not occupy https://www.wwiselomjobs.com/euniversity/datamemory.

Question 11. We Apply Binary Search Alagorithma Troc Array-

7145.html) Sorted Linked List, Why?

No we cannot apply binary search algorithm to (https://www.wisdomjobs.com/e-Answer: a sorted linked list, since there is no way of indexing the middle element in the list. This is the drawthatkring-tusionial-290/hashed-arraylinked list as a data structure.

Question 12. What Do You Mean By Free Pool? Gap Buffer

Pool is a list consisting of unwaysdomjobs.com/e-Answer: university/datacells which has its own pointer.

structures-tutorial-

tree-7146.html)

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CopyPasteJobs Rs.10, Writing Jobs Rs.1

(https://www.wisdomjobs.com/euniversity/databs.com structures-tutorial-

290/circular-buffer-

Question 13. What Do You Mean By Garbage Collection?

TIME JOBS

Answer: It is a technique in which the space ting system periodically collects all the deleted space of the way we is dominous.com/euniversity/datastorage list.

structures-tutorial-It takes place when there is minimum amzount of sepaceyleft

7150.html) in storage list or when CPU is ideal.

The alternate method to this is to immediately reinsert the (https://www.wisdomjobs.com/espace into free storage list which is time consuming university/data-

Question 14. What Do You Mean By Overflow And tutorial-

290/bit-field-**Underflow?**

7151.html)

When new data is to be inserted into the data Bit Array Answer:

structure but there is no available space in the space in

list is empty this situation is called overflowwersity/data-

structures-tutorial-When we want to delete data from a data structure that is 290/bit-arrayempty this situation is called underflow. 7152.html)

Bitboard

(https://www.wisdomjobs.com/e-

Question 15. What Are The Disadvantages Areaty/data-

Implementations Of Linked List?

structures-tutorial-290/bitboard-

(https://www.wisdomjobs.com/) he no of nodes needed can't between

when the program is written

Parallel Array

Search for Jobs...

ii) The no of nodes declared must remain(https://dredw.wisdomjobs.com/e-

university/datastructures-tutorial-

throughout its execution.

290/parallel-array-

Q

View Images Make mon

Lookup Table

Earn more than (https://www.wisdomjobs.com/e-

university/datastructures-tutorial-290/lookup-table-

7155.html)

Question 16. What Is A Queue?

A queue is an ordered collectibists items from Answer:

which items may be deleted at one end (front end) and

items inserted at the other end (rear end) (https://www.wisdomjobs.com/e-

It obeys FIFO rule there is no limit to the Huithseit of atastructures-tutorialelements a queue contains. 290/linked-list-

Question 17. What Is A Priority Queue? 7156.html)

The priority queue is a data structured historich

the intrinsic ordering of the elements (numeric or

university/dataalphabetic) structures-tutorial-

Determines the result of its basic operation?//k95/b/kew/bst-

7157.html) types:

Unrolled Linked List

list-7158.html)

i) Ascending priority queue- Here smallest item can be (https://www.wisdomjobs.com/e-

removed (insertion is arbitrary). university/data-

ii) Descending priority queue- Here largest the threat the ial-290/unrolled-linkedremoved (insertion is arbitrary).

Question 18. What Are The Disadvantages Of Sequential

Storage? (https://www.wisdomjobs.com/e-

i) Fixed amount of storage remains allocated Answer: structures-tutorialto the data structure even if it contains less element 290/Vilst-7159.html)

ii) No more than fixed amount of storage is allocated Skip List

causing overflow. (https://www.wisdomjobs.com/e-

Question 19. What Are The Disadvantages of sity/datastructures-tutorial-inked List? 290/skip-list-Representing A Stack Or Queue By A

i) A node in a linked list (info7and hext) field)

occupies more storage than a corresponding peliement in an

(https://www.wisdomjobs.com/earray.

university/data-ii) Additional time spent in managing the available list. structures-tutorial-

290/jump-list-

7162.html)

Question 20. What Is Dangling Pointer And How The Audid

(https://www.wisdomjobs.com/e-It? university/data-

(https://www.wisdomjobs.com/) Answer: After a call to free(p) makes வைம்சையமர்வ

reference to *p illegal, i.e. though the stor விர்வி விர்

Search for Jobs... but the value of p(address) remain unchanged .so the

object at that address may be used as the Bialany of freesi.e.

there is no way to detect the illegality).Here p is called Binary Tree

dangling pointer. (https://www.wisdomjobs.com/e-

To avoid this it is better to set p to NULL after executing free(p).The null pointer value doesn't reference a storage 290/binary-treelocation it is a pointer that doesn't point to anything.

Question 21. What Are The Disadvantages Of Linear List?

i) We cannot reach any of the nodes that Answer:

(https://www.wisdomjobs.com/eprecede node (p). university/data-

ii) If a list is traversed, the external pointert act he sist to use

be persevered in order to reference the list a dainary-searchtree-data-structure-

Question 22. Define Circular List? 7207.html)

In linear list the next field of the lest media Binary Answer:

contain a null pointer, when a next field in the that the contain a null pointer, when a next field in the that the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer, when a next field in the contain a null pointer is not a next field in the contain a next field in the contain a null pointer is not a next field in the contain a null pointer is not a next field in the contain a null pointer is not a next field in the contain a null pointer is not a next field in the contain a null pointer is next field in the contain a ne

contain a pointer back to the first node it the called circular

university/datalist. structures-tutorial-

Advantages - From any point in the list it 1806 of the list it 180 binary-search-tree-

reach at any other point. 7208.html)

Question 23. What Are The Disadvantages Of Circular

List? (https://www.wisdomjobs.com/e-

i) We can't traverse the list backward. data-Answer: structures-tutorialii) If a pointer to a node is given we cannot delete the node.

Question 24. Define Double Linked List? 7210.html)

It is a collection of data elements called call Answer:

nodes, (https://www.wisdomjobs.com/e-

where each node is divided into three partistersity/data-

structures-tutorial- An info field that contains the information stored in 290/weight-balancedthe node.

tree-7211.html)

- o Left field that contain pointer to node no left side Tree
- Right field that contain pointer to node tops://gwww.idies.domjobs.com/e-

Question 25. Is It Necessary To Sort A File Before structures-tutorial-

Searching A Particular Item? 290/threaded-binary-

If less work is involved in search and a telephent Answer: than to sort and then extract, then we don't defor sort.

(https://www.wisdomjobs.com/e-

university/datastructures-tutorial()

(https://www.wisplemjobs.com/) Red-Black Tree

(https://www.wisdomjobs.com/e-

Q

Thus it depends on situation.

university/data-

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Question 26. What Are The Issues That Hamper The

290/red-black-tree-

Efficiency In Sorting A File?

7214.html)

Answer: The issues are:

Aa Tree

o Length of time required by the programmer/mycomiseomjobs.com/e-

a particular sorting program.

university/datastructures-tutorial-

o Amount of machine time necessary for rugning the

particular program. 7215.html)

o The amount of space necessary for the aparticulare

program . (https://www.wisdomjobs.com/e-

university/data-

Question 27. Calculate The Efficiency Of Seguential Orial-

Search? 290/scapegoat-tree-

Answer: The number of comparisons depends on where the record with the argument key appears in the

(https://www.wisdomjobs.com/e-

table. university/data-

If it appears at first position then one comparison If it appears at last position then $490\,\text{MpW-150}\text{ns}$ Average=(n+1)/2 comparisons 7217.html)

Unsuccessful search n comparisons

Number of comparisons in any case is T-dreen).

(https://www.wisdomjobs.com/e-

Question 28. Is Any Implicit Arguments Are Passed to A structures-tutorial-

Function When It Is Called? 290/t-tree-7218.html)

Answer: Yes there is a set of implicit arguments that

contain information necessary for the further further two was the miobs.com/e-

and return correctly. One of them is return the structures structures tutorial the time of 290/rope-7219.html) returning to calling program the address is retrieved and

Top Trees the function branches to that location.

the function branches to that location. (https://www.wisdomjobs.com/e-

Question 29. Parenthesis Is Never Required 16 1976 1976 1976 Or

Prefix Expressions, Why?

structures-tutorial290/top-trees-

Answer: Parenthesis is not required be 220 usterthe order

of the operators in the postfix /prefix expressionses

determines the actual order of operations https://www.nvgsthemjobs.com/e-

expression. university/datastructures-tutorial-

Question 30. List Out The Areas In Which Datan Structures

Are Applied Extensively? 7221.html)

Answer: • Compiler Design, Van Emde Boas Tree

(https://www.wisdomjobs.com/e-

Operating System, university/data-

o Database Management System, structures-tutorial-

· Statistical analysis package, 290/van-emde-boastree-7222.html)

Cartesian Tree (https://www.wisdomjobs.spm/s,

(https://www.wisdomjobs.com/e- Artificial Intelligence, university/data-

Search for Jobs... · Simulation. structures-tutorial-

290/cartesian-tree-

Q

Question 31. What Are The Major Data Structures Used In

The Following Areas: Network Data Model & Hierarchical

Data Model? (https://www.wisdomjobs.com/e-

RDBMS - Array (i.e. Array of structures) structures-tutorial-Answer:

Network data model - Graph 290/treaps-Hierarchical data model - Trees 7224.html)

Question 32. If You Are Using C Language To Language Lang

The Heterogeneous Linked List, What Pointer Type Will

B-Tree You Use?

(https://www.wisdomjobs.com/e-

Answer: The heterogeneous linked listrocomsatinas at a-

different data types in its nodes and we need a link, pointer

290/b-treeto connect them. It is not possible to use ordinary pointers (7225.html)

for this. So we go for void pointer. Void pointer is capable B+ Tree

of storing pointer to any type as it is a generic pointer type mjobs.com/e-

Question 33. Minimum Number Of Queues Weeded to

structures-tutorial-Implement The Priority Queue? 290/b-plus-tree-

Answer: Two. One queue is used for a 224 fall to the original of

data and another for storing priorities. B*- Tree

Question 34. What Is The Data Structures Used To

university/data-**Perform Recursion?** structures-tutorial-

Stack. Because of its LIFO (L299/Interest Out) Answer:

property it remembers its 'caller' so knows whom to return

when the function has to return. Recursion makes use of

(https://www.wisdomjobs.com/esystem stack for storing the return addresses of the university/data-

function calls. structures-tutorial-

290/b-sharp-tree-Every recursive function has its equivalent iterative (non-7228.html) recursive) function. Even when such equivalent iterative

Dancing Tree

procedures are written, explicit stack is to be used. (https://www.wisdomjobs.com/e-

Question 35. What Are The Notations Used Material

Of Arithmetic Expressions Using Prefix And Postfix 290/dancing-tree-

Forms? 7229.html)

Answer: Polish and Reverse Polish notations.

Question 36. Convert The Expression ((a https://wwwqdviselymjobs.com/e-

7230.html)

university/data-(f + G)) To Equivalent Prefix And Postfix Notations?

290/2-3-tree-Answer: Prefix Notation:

^ - * +ABC - DE + FG

2-3-4 Tree

(https://www.wisdomjobs.com/e-

Q

university/data-

(https://www.wisdomjobs.com/)

Question 37. List Out Few Of The Application Of The Application (https://www.wisdomjobs.com/)

Data-structure?

290/2-3-4-tree-

Search for Jobs...

7231.html) The manipulation of Arithmetic expression, Queaps

Symbol Table construction & Syntax analysiss://www.wisdomjobs.com/e-

Question 38. List Out Few Of The Applications That Make

Use Of Multilinked Structures?

structures-tutorial-

290/queaps-

Sparse matrix, Index generat (282.html) Answer:

Question 39. What Is The Type Of The Algorithmed sed In

(https://www.wisdomjobs.com/e-Solving The 8 Queens Problem?

university/data-

Answer: Backtracking. structures-tutorial-

Question 40. In An Avl Tree, At What Condition The 7233.html)

Balancing Is To Be Done?

Bx-Tree

If the 'pivotal value' (or the 'Haighst //actoriv)issiomjobs.com/e-Answer:

university/datagreater than 1 or less than -1.

structures-tutorial-

Question 41. There Are 8, 15, 13, 14 Nodes Were There In

4 Different Trees. Which Of Them Could Haven Frommed A

Full Binary Tree?

Heaps

Answer: In general: There are 2n-1 nodes in a full

binary tree. By the method of elimination. Heap

(https://www.wisdomjobs.com/e-

Full binary trees contain odd number of nordess Spotarere

cannot be full binary trees with 8 or 14 notres two selection.

With 13 nodes you can form a complete binary tree but not

a full binary tree. So the correct answer is $15^{\text{Binary Heap}}$

(https://www.wisdomjobs.com/e-

Question 42. In Rdbms, What Is The Efficient Databate

Structure Used In The Internal Storage Representation?

290/binary-heap-

B+ tree. Because in B+ tree, all the data is Answer:

stored only in leaf nodes, that makes searching easier. This

corresponds to the records that shall be steps in what wisdom jobs.com/e-

university/datanodes.

structures-tutorial-

Question 43. What Is A Spanning Tree? 290/binomial-heap-

Answer: A spanning tree is a tree associated with a

network. All the nodes of the graph appeaibonathe there

once. A minimum spanning tree is a spanning tree

university/dataorganized so that the total edge weight between nodes is minimized. 290/fibonacci-heap-

Question 44. Does The Minimal Spanning Tree of A Graph

Give The Shortest Distance Between Any 2 Specified

(https://www.wisdomjobs.com/e-Nodes?

university/data-

Answer: structures-tutorial-



No! Minimal spanning tree assures that the Weight of

the tree is kept at its minimum. But it doesn't mean that the

(https://www.wisdemineseeween any two nodes involved arriting Healthimal-

(https://www.wisdomjobs.com/e-

spanning tree is minimum.

university/data-

Search for Jobs...

Question 45. Difference Between Calloc And Malloc Pial-

Q

290/pairing-heapmalloc: allocate n bytes. Answer: 7240.html)

calloc: allocate m times n bytes initialized to 0.

Beap

Question 46. What Are The Major Data Structures/Useddmijobs.com/e-

The Following Areas: Rdbms, Network Data Model & structures-tutorial-**Hierarchical Data Model?** 290/beap-7241.html)

Answer:

RDBMS Array (i.e. Array of structures)

 Network data model Graph (https://www.wisdomjobs.com/e-

university/data- Hierarchical data model Trees. structures-tutorial-

Question 47. Which File Contains The Definition Of the Definition **Member Functions?** 7242.html)

Definitions of member functions of member functions and the Linked Answer:

List class are contained in the LinkedList.cpp file. (https://www.wisdomjobs.com/euniversity/data-

Question 48. How Is Any Data Structure Application Is al-

290/skew-heap-Classified Among Files?

7243.html) A linked list application can be organized into Answer: Soft Heap a header file, source file and main application file. The first (https://www.wisdomjobs.com/e-

file is the header file that contains the definition of the

NODE structure and the LinkedList class definition! utilities. second file is a source code file containing the 7244.html) implementation of member functions of the LinkedList Ternary Heap

class. The last file is the application file that contains code (https://www.wisdomjobs.com/e-

that creates and uses the LinkedList classniversity/data-

Question 49. What Member Function Places A New Node 290/ternary-heap-

At The End Of The Linked List? 7245.html)

The appendNode() member function alloces a Answer:

new node at the end of the linked list. The https://www.discom/e-

requires an integer representing the current data of the structures-tutorialnode. 290/d-ary-heap-

7246.html) Question 50. What Is Linked List?

Answer: Linked List is one of the fundamental data structures. It consists of a sequence of? nodes, each

containing arbitrary data fields and one or two ("links") (https://www.wisdomjobs.com/e-

pointing to the next and/or previous nodes wellinked list is a self-referential datatype because it con প্রাণের এক প্রাণার বিষয়ে বিষয় বিষয়

link to another data of the same type. Linked lists permit

insertion and removal of nodes at any political list in (https://www.wisdomjobs.com/e-

constant time, but do not allow random access university/data-

Question 51. What Does Each Entry In The Link distorial-

290/radix-tree-Called? 7248.html)

(https://www.wisdomiobs.com/). Each entry in a linked list is called a node. Suffix Tree

Think of a node as an entry that has three sub-entries Quenjobs.com/e

Search for Jobs.. sub entry contains the data, which may be one at the data or

many attributes. Another points to the previous node, and 290/suffix-tree-

the last points to the next node. When you enter a new 7249 html item on a linked list, you allocate the new node and then Suffix Array

set the pointers to previous and next nodestps://www.wisdomjobs.com/e-

Question 52. How Is The Front Of The Queue Calculated?

structures-tutorial-

The front of the queue is caloulated by frant = Answer:

7250.html) (front+1) % size.

Question 53. Why Is The Isempty() Member Method Suffix

Array Called?

(https://www.wisdomjobs.com/e-

Q

Answer: The isEmpty() member methodviss strylled at avithin the dequeue process to determine if theretill an feether the queue to be removed i.e. isEmpty() is called to decide suffix-arraywhether the queue has at least one elemont in the present the present the same at least one elemont in the same at least one element in the same at least one elemont in the same at least one element is called by the dequeue() method before returning the

front element. (https://www.wisdomjobs.com/e-

Question 54. Which Process Places Data At The Back Of structures-tutorial-

The Queue? 290/fm-index-

Enqueue is the process that 7252 est data at the Answer: Generalised Suffix back of the queue.

Tree

Question 55. What Is The Relationship Between A Queue (https://www.wisdomjobs.com/e-

And Its Underlying Array? university/data-

Data stored in a queue is actually stored in an 290/generalised-Answer: array. Two indexes, front and end will be used to identify tml)

the start and end of the queue. B-Trie

When an element is removed front will be him by her were the property of the p

1. In case it reaches past the last index available it will be structures-tutorialreset to 0. Then it will be checked with end If it is greater 290/b-trie-7254.html)

than end queue is empty. Judy Array

When an element is added end will be inchetiped/tred/by/isdipmjobs.com/ecase it reaches past the last index available it will be reset structures-tutorialto 0. After incrementing it will be checked with front. If they are equal queue is full. 7255.html)

Question 56. What Is A Queue? Directed Acyclic Word

Graph
A Queue is a sequential organization of data.
(https://www.wisdomjobs.com/e-

A queue is a first in first out type of data attitional and a first out type of data attitional attitio element is inserted at the last position and write method is 290/directed-acyclicalways taken out from the first position.

Question 57. What Does Isempty() Member Wethod 7256.html)

Determines?

Answer:

(https://www.wisdomjobs.com/) checks if the stack Mustiwes Irense

element. This method is called by Pop() before retrieving Ternary Search Tree

Search for Jobs...

and returning the top element.

(https://www.wisdomjobs.com/e-

Q

Question 58. What Method Removes The Value From The structures-tutorial-Top Of A Stack?

290/ternary-search-

The pop() member method referoves the value from the top of a stack, which is then returned by the pop()

member method to the statement that calls the pop www.wisdomjobs.com/e-

university/datamember method. structures-tutorial-

Question 59. What Method Is Used To Place An Waltie Onto

The Top Of A Stack?

7261.html)

a,b)- Tree irection that data https://www.wisdomjobs.com/e-Answer: push() method, Push is the

is being added to the stack. push() member pethod places a value onto the top of a stack. structures-tutorial-

290/a-b-tree-Question 60. Run Time Memory Allocation (5 Known As?

Allocating memory at runtime is called a Answer:

dynamically allocating memory. In this, ythatdanioally domjobs.com/e-

allocate memory by using the new operator wheth detaring structures-tutorial-

the array. 290/link-cut-tree-

for example : int grades[] = new int[10]; 7265.html)

Question 61. How Do You Assign An Address Tree An

(https://www.wisdomjobs.com/e-**Element Of A Pointer Array?** university/data-

Answer: We can assign a memory addinessutesantorialelement of a pointer array by using the address by befator, which is the ampersand (&), in an assignment statement

Spaghetti Stack such as ptemployee[0] = &projects[2];

(https://www.wisdomjobs.com/e-

Question 62. Why Do We Use A Multidimensional Arteay?

A multidimensional array can be useful to Answer: 290/spaghetti-stackorganize subgroups of data within an array, In addition to organizing data stored in elements of an array, a Disjoint- Set Data

multidimensional array can store memory addresses of

data in a pointer array and an array of pointing://www.wisdomjobs.com/e-

university/data-

structures-tutorial-

Multidimensional arrays are used to store information in a matrix form. structure-7270.html)

e.g; a railway timetable, schedule cannot be stored as a single dimensional array. One can use a 3-partitionfing storing height, width and length of each roomes each floor

of a building.

Space Partitioning

(https://www.wisdomjobs.com/e-

Question 63. What Is Significance Of " * "versity/data-

structures-tutorial-The symbol "*" tells the computer that you are Answer:

(https://www.wisdomiobs.com/) declaring a pointer. Actually it depends oparantaxig-

In a statement like int *ptr; the '*' tells that you are

Search for Jobs... declaring a pointer. **Binary Space**

Q

Partitioning

In a statement like int i = *ptr; it tells that you want to (https://www.wisdomjobs.com/e-

assign value pointed to by ptr to variable university/data-

The symbol "*" is also called as Indirection objects by orial-290/binary-space-Dereferencing Operator.

partitioning-

Question 64. Is Pointer A Variable? 7258.html)

Answer: Yes, a pointer is a variable and grant eresed as

an element of a structure and as an attribute of a class in

some programming languages such as C++, but not Java structures-tutorial-

However, the contents of a pointer is a many or the conte

another location of memory, which is usually then hemory

address of another variable, element of alistrivatūreeor

(https://www.wisdomjobs.com/eattribute of a class.

university/data-

Question 65. How Many Parts Are Theresto At Declaration

Statement? 290/interval-tree-

7262.html) There are two main parts, variable identifier Answer:

and data type and the third type is optional which is type (https://www.wisdomjobs.com/e-

qualifier like signed/unsigned. university/data-

Question 66. How Memory Is Reserved Using Wes-tutorial-

290/range-tree **Declaration Statement?** 7264.html)

Answer: Memory is reserved using data type in the

variable declaration. A programming language.//www.wisdomjobs.com/e-

structures-tutorial-

For example: 290/bin-7266.html)

in C# the declaration int i; will reserve 32 bits for variable i.

A pointer declaration reserves memory for the day were sission jobs.com/e-

the pointer variable, but not for the data that it will point to. structures-tutorial-

The memory for the data pointed by a pointer has to be

allocated at runtime. 7269.html)

The memory reserved by the compiler for simple variables

and for storing pointer address is allocated to the west are storing pointer address is allocated to the west are storing pointer address is allocated to the west are storing pointer address is allocated to the west are storing pointer address is allocated to the west are storing pointer address is allocated to the west are storing pointer address.

while the memory allocated for pointer referenced data at structures-tutorialruntime is allocated on the heap. 290/implicit-kd-tree-

Question 67. What Is Impact Of Signed Numbers On The

Memory? Min/ Max Kd- Tree

(https://www.wisdomjobs.com/e-

Sign of the number is the first bit of the university/data-Answer: storage allocated for that number. So you get one bit desp

for storing the number. For example if you are storing an 8-

bit number, without sign, the range is 0-2899/fryoundebildtee-

to store sign you get 7 bits for the number plus one bit for

(https://www.wisplensionlesscorne)range is -128 to +127.

Adaptive K- D Tree

(https://www.wisdomjobs.com/e-

Q

Question 68. What Is Precision?

university/data-

Search for Jobs...

Precision refers the accuracy of the decimal Answer: 290/adaptive-k-dportion of a value. Precision is the number of digits tree-7273.html)

allowed after the decimal point.

Quadtree

Question 69. What Is The Difference Between Mully And domiobs.com/e-

university/data-**Void Pointer?** structures-tutorial-

NULL can be value for pointerstype yariables. Answer:

VOID is a type identifier which has not size 74.html)

NULL and void are not same. Example: void are NULL;

Question 70. What Is The Difference Between Array And

university/data-Stack?

structures-tutorial-

STACK follows LIFO. Thus the first Answer: 7275.html)

entered would be the last removed.

Linear Octrees

In array the items can be entered or removed in any order (https://www.wisdomjobs.com/e-

Basically each member access is done using indexated

strict order is to be followed here to remove a wante their land. 290/linear-octrees-

element. 7276.html)

Array may be multidiamensional or onediamensional but

stack should be onediamensional. but both tase, linear waste mjobs.com/e-

university/datastructure.

structures-tutorial-Question 71. Tell How To Check Whether A Linked List Is

Circular? 7277.html)

Answer: Create two pointers, each set to Titree start of

(https://www.wisdomjobs.com/ethe list. Update each as follows:

university/datawhile (pointer1) structures-tutorial-290/ub-treepointer1 = pointer1->next; 7278.html) pointer2 = pointer2->next; if(pointer2)pointer2=pointer2->next;R-Tree if (pointer1 == pointer2) (https://www.wisdomjobs.com/e-

university/dataprint ("circularn"); structures-tutorial-290/r-tree-7279.html) }

R+ Tree

Question 72. Whether Linked List Is Linear Or Non-linear (https://www.wisdomjobs.com/e-

Data Structure? university/data-

Answer: • According to Access strategies Linked 290/r-plus-tree

list is a linear one. 7280.html)

o According to Storage Linked List နွဲ့ န ညွှဝှဂ-

linear one. (https://www.wisdomjobs.com/e-

university/data-

=

Question 73. If You Are Using C Language पर्व पत्रकृष्टिमारंगीर

The Heterogeneous Linked List, What Pointer Type Will

(https://www.wisplanigles.com/)

class.

Hilbert R- Tree

(https://www.wisdomjobs.com/e-

A

Search for Jobs...

Answer: The heterogeneous linked list frontains at a

different data types in its nodes and we need to less types in its nodes and we need to less types in its nodes.

Q

to connect them. It is not possible to use ordinary pointers 7282.html)
for this. So we go for void pointer. Void pointer is capable

X-Tree
of storing pointer to any type as it is a generic pointer type.
(https://www.wisdomjobs.com/e-

Question 74. What Is A Node Class?

university/data-

Answer: A node class is a class that, structures-tutorial-relies on the base 290/x-tree-7283.html) class for services and implementation, provides a wider Metric Tree interface to users than its base class, relies primarily on domjobs.com/e-virtual functions in its public interface dependes its direct and indirect base class can be understood only indicated the context of the base class can be used as base for 7284.html) further derivation can be used to create objects. A node Vp- Tree class is a class that has added new services inherited frest its latase

290/vp-tree-

structures-tutorial-

Question 75. When Can You Tell That A Memory Leak Will

Occur? Bk- Tree

Answer: A memory leak occurs when a the ability to free a block of dynamically allocated memory.

Question 76. How Many Different Trees 200 Possible With

10 Nodes ? 7286.html)

Answer: 1014 - For example, consider **Hashee** ith 3 nodes(n=3), it will have the maximum combination of 5 Hash Table

different (ie, 23 - 3 =? 5) trees. (https://www.wisdomjobs.com/e-

Question 77. How Can I Search For Data 4River Einker List?

structures-tutorial-

Answer: Unfortunately, the only way to some aline ked list is with a linear search, because the only way tay as linear search, because the only way to some alinear search.

list's members can be accessed is sequentially unction

Sometimes it is quicker to take the data flotins a / NYMKed virstom jobs.com/e-

and store it in a different data structure so that searches structures-tutorial-can be more efficient.

university/data-so that searches structures-tutorial-

Question 78. Define Data Structures? 7288.html)

Answer: Data Structures is defined as the way of https://www.wisdomjobs.com/e-organizing all data items that consider not only the university/data-

elements stored but also stores the relationship eqtween

the elements. 290/open-

addressing-Question 79. Define Primary Data Structures? html)

()

Answer:

Primary data structures are the basic datlestructures that

directly operate upon the machine instructions. All the

(https://www.wisdamieensemve) (integers, floating-point numbers structures-tutorial-

character constants, string constants) and political set all of the character constants are political set all of the character constants.

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considered as primary data structures. 7290.html)

Q

Question 80. Define Static Data Structures? Probing

(https://www.wisdomjobs.com/e-

Answer: A data structure formed when the shymber of data items are known in advance is refered as structure or fixed size data structure.

290/linear-probing-7291.html)

Question 81. List Some Of The Static Data Structures In Quadratic Probing

C? (https://www.wisdomjobs.com/e-

Answer: Some of the static data structures it data structures it data structures etc.

290/quadratic-

Question 82. Define Dynamic Data Structure (9-7292.html)

Answer: A data structure formed where the harbies of (https://www.wisdomjobs.com/edata items are not known in advance is known as dynamic university/data-data structure or variable size data structures-tutorial-

Question 83. List Some Of The Dynamic Data Structures

7293.html)

Answer: Some of the dynamic data structures in Care (https://www.wisdomjobs.com/e-

linked lists, stacks, queues, trees etc. university/data-

Question 84. Define Linear Data Structures: structures: 290/cuckoo-hashing-

Answer: Linear data structures are data structures

having a linear relationship between its adjacented language.

Eg; Linked lists. (https://www.wisdomjobs.com/e-university/data-

Question 85. Define Non-linear Data Structures2s-tutorial-

Answer: Non-linear data structures are data structures hashing-7295.html) that don't have a linear relationship between its adjacent elements but have a hierarchical relationship between the Function

elements. (https://www.wisdomjobs.com/e-

Eg; Trees and Graphs.

university/datastructures-tutorial290/perfect-hash-

Answer: Linked list consists of a series of structures, which are not necessarily adjacent in methods. Structure contains the element and a pointer to a structure university/data-

university/datacontaining its successor. We call this the Next Pointer The

last cell's Next pointer points to NULL. 290/universal-

hashing-7297.html)

Question 87. State The Different Types Office State Comjobs.com/e-

Answer: university/data-structures-tutorial-

(https://www.wisdomichs.com/) Question 88. List The Basic Operations

Extendible Hashing Carried Out In A (https://www.wisdomjobs.com/e-

Q

Linked List?

university/data-

Search for Jobs...

The basic operations carried out the all the dist Answer:

290/extendibleinclude: hashing-7299.html)

· Creation of a list. 2- Choice Hashing

o Insertion of a node. (https://www.wisdomjobs.com/e-

university/data- Deletion of a node. structures-tutorial- Modification of a node. 290/2-choiceo Traversal of the list. hashing-7301.html)

Question 89. List Out The Advantages Of Using A Linked

(https://www.wisdomjobs.com/e-

List? university/data-

Answer: • It is not necessary to specify the thurst be orial-290/pearsonof elements in a linked list during hashing-7302.html)

declaration.

Fowler-noll-vo Hash

 Linked list can grow and shrink in size
 Function depending upon the insertion and intellection what is domjobs.com/euniversity/dataoccurs in the list.

 Insertions and deletions at any place in a list 290/fowlernollvocan be handled easily and efficiently handled

o A linked list does not waste any n7603drtyml)

space. Bitstate Hashing

(https://www.wisdomjobs.com/e-

Question 90. List Out The Disadvantages Of Using Aa-

structures-tutorial-**Linked List?**

290/bitstate-hashing-

Answer: • Searching a particular element in a list is

difficult and time consuming.

Bloom Filter

an array to store the same numberningersity/datastructures-tutorialelements.

290/bloom-filter-

Question 91. List Out The Applications OFA5 hinked List?

Some of the important applications of linked Hashing Answer:

lists are manipulation of polynomials, sparse matrices is dominous.com/e-

stacks and queues. university/data-

Structures-tutorial-Question 92. State The Difference Between Arrays And 290/locality-

Linked Lists? preserving-hashing-

7306.html) Answer:

Morton Number

(https://www.wisdomjobs.com/e-

university/datastructures-tutorial-

_	Arrays	290/morton.eumbers	
=	Size of an array is fixed	Size 367. hitml): variable	
(https://www.wis	It is necessary to specify the number demileheasementhing declaration	It is not necessary to specify the number of declaring declaring. How we wis dominous com/e-	
Search for Jobs	somewhat difficult	InsanivassityAdatdetions are carried out sarietures-tutorial-	Q
	It occupies less memory than a linked list for the same number of elements	It 029092558991518611919 7308.html)	

Rolling Hash

7310.html)

(https://www.wisdomjobs.com/e-

Question 93. Define A Stack?

university/data-

structures-tutorial-Answer: Stack is an ordered collection of elements in 290/rolling-hashwhich insertions and deletions are restricted to the control of the control of

The end from which elements are added And preferred is referred to as top of the stack. Stacks are halps referred sats mjobs.com/e-piles, push-down lists and last-in-first-out (Liyers) tyclata-

structures-tutorial-Question 94. List Out The Basic Operations That Gan Be

Performed On A Stack?

Answer: The basic operations that call 36 performed

on a stack are (https://www.wisdomjobs.com/e-

Push operation.
 Pop operation.
 Peek operation.
 university/data-structures-tutorial-290/hash-tree-7311.html)

• Empty check.

• Fully occupied check. (https://www.wisdomjobs.com/e-

university/data-structures-tutorial-

Question 95. State The Different Ways Of Representing

Expressions? 7312.html)

Answer: The different ways of representation The

expressions are (https://www.wisdomjobs.com/e-

Infix Notation.
 Prefix Notation.
 Postfix Notation.
 Postfix Notation.
 university/data-structures-tutorial-290/hash-trie-7313.html)

Hash Array Mapped

Question 96. State The Advantages Of Using Infix

Notations? (https://www.wisdomjobs.com/e-

university/data-

Answer: • It is the mathematical way of structures-tutorial representing the expression. 290/hash-array-

• It is easier to see visually which operation is 7315.html)

done from first to last.

Distributed Hash

Question 97. State The Advantages Of Using Postfix

Notations? (https://www.wisdomjobs.com/e-

university/data-

Answer: • Need not worry about the rules Lefures-tutorial-

precedence. 290/distributed-

table-7316.html)

Need not worry about the rules fof পাঞ্জারকো leftshing

associativity. (https://www.wisdomjobs.com/e-

Q

university/data-(https://www.wisdomjohseeomot need parenthesis to override the structures-tutorial-

above rules. 290/consistent-

Search for Jobs... hashing-7317.html)

Question 98. State The Rules To Be Followed During Infix Stable Hashing

To Postfix Conversions? (https://www.wisdomjobs.com/e-

Answer: • Fully parenthesize the expression starting structures tutorial from left to right. During parenthesizing, the 290/stable hashing operators having higher precedence and first parenthesized.

Koorde

Move the operators one by one to httpir.//ightw.wisdomjobs.com/esuch that each operator replaces their structures-tutorial-corresponding right parenthesis.
 290/koorde-

The part of the expression, which কুরু hean
 converted into postfix is to be treated as Graphs
 single operand.

Once the expression is converted frath postfix
 form, remove all parenthesis.
 (https://www.wisdomjobs.com/e-university/data-

Question 99. State The Rules To Be Followed During Infix

To Prefix Conversions? 290/graph-7320.html)

Answer: • Fully parenthesize the expression starting

from left to right. During parenthe(stitzinsg/threw.wisdomjobs.com/e-operators having higher precedence are the structures-tutorial-parenthesized.

290/adjacency-list-

o Move the operators one by one to the interior such that each operator replaces their corresponding left parenthesis. (https://www.wisdomjobs.com/e-

The part of the expression, which has been structures tutorial-converted into prefix is to be treated as single 290/adjacency-operand.
 matrix-7322.html)

Once the expression is converted into inverter Graph form, remove all parenthesis. (https://www.wisdomjobs.com/e-

university/data-

Question 100. State The Difference BetweentStacksoAnd

Linked Lists? 290/and-inverter-graph-7324.html)

Answer: The difference between stacks and linked lists
Binary Decision
is that insertions and deletions may occur, anywhere in a

linked list, but only at the top of the stack(https://www.wisdomjobs.com/e-

Question 101. Mention The Advantages University/data-Of Representing structures-tutorial-Stacks Using Linked Lists Than Arrays? 290/binary-decision-

Answer: • It is not necessary to specify the mumber.html)

of elements to be stored in a stackirkuri Montent

Diagram



declaration, since memory is allocatted://www.wisdomjobs.com/e-

dynamically at run time when an element is structures-tutorial-

(https://www.wisdomjobalgem/) the stack. 290/binary-moment-

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and efficiently. Zero Suppressed

o Insertions and deletions can be handlesh gazibyhtml)

Q

 Linked list representation of stacke caing Powgram and shrink in size without wasting memory university/dataspace, depending upon the insertion and stutorialdeletion that occurs in the list. 290/zero-suppressed-

o Multiple stacks can be represented eight eight am-7327.html) using a chain for each stack.

Propositional

Question 102. Define A Queue?

Directed Acyclic

graph-7328.html)

7330.html)

Graph Queue is an ordered collection of elements in (https://www.wisdomjobs.com/e-Answer: which insertions are restricted to one end galled the rear end and deletions are restricted to other endctaled under all front end. Queues are also referred as First-In-First-Out directed-acyclic-(FIFO) Lists.

Question 103. Define A Priority Queue? Graph-Structured

Priority queue is a collection of elements, each (https://www.wisdomjobs.com/econtaining a key referred as the priority for that element. Elements can be inserted in any order (i.e. troftalternatingpriority), but are arranged in order of their BPN or the invertedthe gueue. The elements are deleted from the gueue in the order of their priority (i.e., the elements with the filthest (https://www.wisdomjobs.com/epriority is deleted first). The elements with the same university/datapriority are given equal importance and processed tutorial-290/scene-graphaccordingly.

Question 104. State The Difference Between Queues And Data Structures Linked Lists? Practice Tests

Answer: lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions and deletions may our inversity for the lists is that insertions are inversity for the lists in the list inversity for the list inversity fo the linked list, but in queues insertions can be made only in practice-tests-the rear end and deletions can be made only in the rear end and deletions can be end on the rear end and deletions can be end on the rear end and deletions can be end on the rear end and deletions can be end on the rear end and de end.

Question 105. Define A Deque?

Deque (Double-Ended Queue) is another form of a queue in which insertions and deletions are made at both the front and rear ends of the queue. There are two variations of a deque, namely, input restricted deque and output restricted deque. The input restricted deque allows



insertion at one end (it can be either front or rear) only. The output restricted deque allows deletion at one end (it can (https://www.wiscominalsfront.) rear) only.

Question 106. Why You Need A Data Structure?

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Answer: A data structure helps you to understand the relationship of one data element with the other and organize it within the memory. Sometimes the organization might be simple and can be very clearly visioned.

Eg; List of names of months in a year –Linear Data Structure, List of historical places in the world- Non-Linear Data Structure. A data structure helps you to analyze the data, store it and organize it in a logical and mathematical manner.

Question 107. What Do You Mean By Shortest Path?

Answer: A path having minimum weight between two vertices is known as shortest path, in which weight is always a positive number.

Question 108. What Do You Mean By Articulation Point?

Answer: If a graph is not biconnected, the vertices whose removal would disconnect the graph are known as articulation points.

Question 109. Define Biconnectivity?

Answer: A connected graph G is said to be biconnected, if it remains connected after removal of any one vertex and the edges that are incident upon that vertex. A connected graph is biconnected, if it has no articulation points.

Question 110. What Do You Mean By Back Edge?

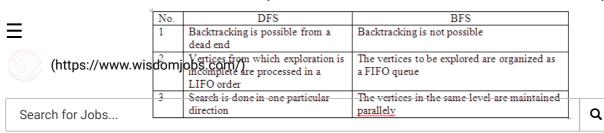
Answer: If w is the ancestor of v, then vw is called a back edge.

Question 111. What Do You Mean By Tree Edge?

Answer: If w is undiscovered at the time vw is explored, then vw is called a tree edge and v becomes the parent of

Question 112. Differentiate Bfs And Dfs?

Answer:



Question 113. What Do You Mean By Breadth First Search (bfs)?

Answer: BFS performs simultaneous explorations starting from a common point and spreading out independently.

Question 114. List The Two Important Key Points Of Depth First Search?

Answer: i) If path exists from one node to another node, walk across the edge – exploring the edge.
ii) If path does not exist from one specific node to any other node, return to the previous node where we have been before – backtracking.

Question 115. Define Graph Traversals?

Answer: Traversing a graph is an efficient way to visit each vertex and edge exactly once.

Question 116. Name Two Algorithms Two Find Minimum Spanning Tree?

Answer: o Kruskal's algorithm.

o Prim's algorithm.

Question 117. What Is A Minimum Spanning Tree?

Answer: A minimum spanning tree of an undirected graph G is a tree formed from graph edges that connects all the vertices of G at the lowest total cost.

Question 118. What Are The Two Traversal Strategies Used In Traversing A Graph?

Answer: o Breadth first search

Depth first search

Question 119. When Is A Graph Said To Be Weakly Connected?

Answer: When a directed graph is not strongly connected but the underlying graph is connected, then the graph is said to be weakly connected.

Question 120. What Is Meant By Strongly Connected In A Graph?

Answer:



An undirected graph is connected, if there is a path from every vertex to every other vertex. A directed graph with (https://www.wighanglobergans/balled strongly connected.

Question 121. What Is An Acyclic Graph?

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Answer: A simple diagram which does not have any cycles is called an acyclic graph.

Question 122. What Is A Cycle Or A Circuit?

Answer: A path which originates and ends in the same node is called a cycle or circuit.

Question 123. What Is A Simple Path?

Answer: A path in a diagram in which the edges are distinct is called a simple path. It is also called as edge simple.

Question 124. Define Path In A Graph?

Answer: The path in a graph is the route taken to reach terminal node from a starting node.

Question 125. Define Indegree Of A Graph?

Answer: In a directed graph, for any node v, the number of edges which have v as their terminal node is called the indegree of the node v.

Question 126. Define Outdegree Of A Graph?

Answer: In a directed graph, for any node v, the number of edges which have v as their initial node is called the out degree of the node v.

Question 127. What Is A Weighted Graph?

Answer: A graph in which weights are assigned to every edge is called a weighted graph.

Question 128. What Is A Simple Graph?

Answer: A simple graph is a graph, which has not more than one edge between a pair of nodes than such a graph is called a simple graph.

Question 129. What Is A Loop?

Answer: An edge of a graph which connects to itself is called a loop or sling.

Question 130. What Is A Undirected Graph?

Answer: A graph in which every edge is undirected is called a directed graph.

Question 131. What Is A Directed Graph?

Answer: A graph in which every edge is directed is called a directed graph.

Question 132. Define Adjacent Nodes?

Answer: Any two nodes which are connected by an (https://www.wisdomjobs.com/) are called adjacent nodes. For example, if

Search for Jobs... u. v.s. V. then we say that the edge x connects the nodes u.

. . .

 $u, v \in V$, then we say that the edge x connects the nodes u and v.

Question 133. Define Graph?

Answer: A graph G consist of a nonempty set V which is a set of nodes of the graph, a set E which is the set of edges of the graph, and a mapping from the set for edge E to a set of pairs of elements of V. It can also be represented as G=(V, E).

Question 134. What Is The Need For Path Compression?

Answer: Path compression is performed during a Find operation. Suppose if we want to perform Find(X), then the effect of path compression is that every node on the path from X to the root has its parent changed to the root.

Question 135. What Do You Mean By Union-by-weight?

Answer: Keep track of the weight ie; size of each tree and always append the smaller tree to the larger one when performing UNION.

Question 136. List The Abstract Operations In The Set?

Answer: Let S and T be sets and e be an element.

- SINGLETON(e) returns {e}.
- UNION(S,T) returns S U T.
- \circ INTERSECTION(S,T) returns S \cap T.
- FIND returns the name of the set containing a given element.

Ouestion 137. Define A Set?

Answer: A set S is an unordered collection of elements from a universe. An element cannot appear more than once in S. The cardinality of S is the number of elements in S. An empty set is a set whose cardinality is zero. A singleton set is a set whose cardinality is one.

Question 138. What Do You Mean By Disjoint Set Adt?

Answer: A collection of non-empty disjoint sets S=S1,S2,....,Sk i.e;each Si is a non-empty set that has no element in common with any other Sj. In mathematical notation this is: $Si \cap Sj = \Phi$. Each set is identified by a unique element called its representative.

Question 139. List The Applications Of Set Adt?



Answer: • Maintaining a set of connected components of a graph.

(https://www.wisdonniaha.apms) of duplicate copies of web pages.

Constructing a minimum spanning tree for a graph.

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Question 140. Define An Equivalence Relation?

Q

Answer: An equivalence relation is a relation R that satisfies three properties:

- (Reflexive) aRa, for all a ε S.
- o (Symmetric) aRb if and only if bRa.
- o (Transitive) aRb and bRc implies that aRc.

Question 141. Define A Relation?

Answer: A relation R is defined on a set S if for every pair of elements (a,b), a,b ϵ S, aRb is either true or false. If aRb is true, then we say that a is related to b.

Question 142. Mention One Advantage And Disadvantage Of Using Quadratic Probing?

Answer: Advantage: The problem of primary clustering is eliminated.

Disadvantage: There is no guarantee of finding an unoccupied cell once the table is nearly half full.

Question 143. List The Limitations Of Linear Probing?

Answer: • Time taken for finding the next available cell is large.

 In linear probing, we come across a problem known as clustering.

Question 144. What Is The Need For Extendible Hashing?

Answer: If either open addressing hashing or separate chaining hashing is used, the major problem is that collisions could cause several blocks to be examined during a Find, even for a well-distributed hash table. Extendible hashing allows a find to be performed in two disk accesses. Insertions also require few disk accesses.

Question 145. What Do You Mean By Rehashing?

Answer: If the table gets too full, the running time for the operations will start taking too long and inserts might fail for open addressing with quadratic resolution. A solution to this is to build another table that is about twice as big with the associated new hash function and scan down the entire original hash table, computing the new hash value for each element and inserting it in the new table. This entire operation is called rehashing.

Question 146. What Do You Mean By Double Hashing?

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formula says that we apply a second hash function to X and probe at a distance hash2(X), 2hash2(X),...,and so on.

A function such as hash2(X)=R-(XmodR), with R a prime smaller than Tablesize.

Question 147. What Do You Mean By Secondary Clustering?

Answer: Although quadratic probing eliminates primary clustering, elements that hash to the same position will probe the same alternative cells. This is known as secondary clustering.

Question 148. What Do You Mean By Quadratic Probing?

Answer: Quadratic probing is an open addressing collision resolution strategy in which F(i)=i2. There is no guarantee of finding an empty cell once the table gets half full if the table size is not prime. This is because at most half of the table can be used as alternative locations to resolve collisions.

Question 149. What Do You Mean By Primary Clustering?

Answer: In linear probing collision resolution strategy, even if the table is relatively empty, blocks of occupied cells start forming. This effect is known as primary clustering means that any key hashes into the cluster will require several attempts to resolve the collision and then it will add to the cluster.

Question 150. What Do You Mean By Linear Probing?

Answer: Linear probing is an open addressing collision resolution strategy in which F is a linear function of i, F(i)=i. This amounts to trying sequentially in search of an empty cell. If the table is big enough, a free cell can always be found, but the time to do so can get quite large.

Question 151. What Do You Mean By Probing?

Answer: Probing is the process of getting next available hash table array cell.

Question 152. What Are The Types Of Collision Resolution Strategies In Open Addressing?

Answer: • Linear probing.

- · Quadratic probing.
- Double hashing.

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Question 153. What Do You Mean By Open Addressing?

Answer: Open addressing is a collision resolving (https://www.wisdomiobs.com/), if collision occurs alternative cells are

h2(x),.... are tried in succession, where hi(x)=

tried until an empty cell is found. The cells h0(x), h1(x), Search for Jobs...

> (Hash(x)+F(i))mod Tablesize with F(0)=0. The function F is the collision resolution strategy.

Question 154. Write The Disadvantages Of Separate Chaining?

Answer: • The elements are evenly distributed. Some elements may have more elements and some may not have anything.

o It requires pointers. This leads to slow the algorithm down a bit because of the time required to allocate new cells, and also essentially requires the implementation of a second data structure.

Question 155. Write The Advantage Of Separate Chaining?

Answer: More number of elements can be inserted as it uses linked lists.

Question 156. What Do You Mean By Separate Chaining?

Answer: Separate chaining is a collision resolution technique to keep the list of all elements that hash to the same value. This is called separate chaining because each hash table element is a separate chain (linked list). Each linked list contains all the elements whose keys hash to the same index.

Question 157. What Are The Collision Resolution Methods?

Answer: • Separate chaining or External hashing.

Open addressing or Closed hashing.

Question 158. What Do You Mean By Collision In Hashing?

When an element is inserted, it hashes to the same value as an already inserted element, and then it produces collision.

Question 159. Write The Importance Of Hashing?

Answer: • Maps key with the corresponding value using hash function.

· Hash tables support the efficient addition of new entries and the time spent on searching

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for the required data is independent of the number of items stored.

(https://www.wisdomjobs.com/)

Question 160. What Do You Mean By Hash Function?

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Answer: A hash function is a key to address transformation which acts upon a given key to compute the relative position of the key in an array. The choice of hash function should be simple and it must distribute the data evenly. A simple hash function is hash_key=key mod tablesize.

Question 161. What Do You Mean By Hash Table?

Answer: The hash table data structure is merely an array of some fixed size, containing the keys. A key is a string with an associated value. Each key is mapped into some number in the range 0 to tablesize-1 and placed in the appropriate cell.

Question 162. Define Hashing?

Answer: Hashing is the transformation of string of characters into a usually shorter fixed length value or key that represents the original string. Hashing is used to index and retrieve items in a database because it is faster to find the item using the short hashed key than to find it using the original value.

Question 163. What Do You Mean By The Term "percolate Down"?

Answer: When the minimum element is removed, a hole is created at the root. Since the heap now becomes one smaller, it follows that the last element X in the heap must move somewhere in the heap. If X can be placed in the hole, then we are done.. This is unlikely, so we slide the smaller of the hole's children into the hole, thus pushing the hole down one level. We repeat this step until X can be placed in the hole. Thus, our action is to place X in its correct spot along a path from the root containing minimum children. This general strategy is known as percolate down.

Question 164. What Do You Mean By The Term "percolate Up"?

Answer: To insert an element, we have to create a hole in the next available heap location. Inserting an element in the hole would sometimes violate the heap order property, so we have to slide down the parent into the hole. This strategy is continued until the correct location for the new

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element is found. This general strategy is known as a percolate up; the new element is percolated up the heap (https://www.wisdaniae&spech)location is found.

Question 165. What Are The Applications Of Priority

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Queues?

Q

Answer: • The selection problem.

Event simulation.

Question 166. What Do You Mean By Heap Order Property?

Answer: In a heap, for every node X, the key in the parent of X is smaller than (or equal to) the key in X, with the exception of the root (which has no parent).

Question 167. What Do You Mean By Structure Property In A Heap?

Answer: A heap is a binary tree that is completely filled with the possible exception at the bottom level, which is filled from left to right. Such a tree is known as a complete binary tree.

Question 168. What Are The Properties Of Binary Heap?

Answer: • Structure Property.

· Heap Order Property.

Question 169. What Is The Need For Priority Queue?

Answer: In a multiuser environment, the operating system scheduler must decide which of the several processes to run only for a fixed period of time. One algorithm uses queue. Jobs are initially placed at the end of the queue. The scheduler will repeatedly take the first job on the queue, run it until either it finishes or its time limit is up and place it at the end of the queue if it does not finish. This strategy is not appropriate, because very short jobs will soon to take a long time because of the wait involved in the run.

Generally, it is important that short jobs finish as fast as possible, so these jobs should have precedence over jobs that have already been running. Further more, some jobs that are not short are still very important and should have precedence. This particular application seems to require a special kind of queue, known as priority queue. Priority queue is also called as Heap or Binary Heap.

Question 170. What Are The Applications Of B-tree?

Answer: • Database implementation.

• Indexing on non primary key fields.



Question 171. What Do You Mean By 2-3-4 Tree? (https://www.wisdomjobs.com/)

Answer: A B-tree of order 4 is called 2-3-4 tree. A B-tree

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of order 4 is a tree that is not binary with the following structural properties:

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- The root is either a leaf or has between 2 and 4 children.
- All non-leaf nodes (except the root) have between 2 and 4 children.
- · All leaves are at the same depth.

Question 172. What Do You Mean By 2-3 Tree?

Answer: A B-tree of order 3 is called 2-3 tree. A B-tree of order 3 is a tree that is not binary with the following structural properties:

- The root is either a leaf or has between 2 and 3 children.
- All non-leaf nodes (except the root) have between 2 and 3 children.
- o All leaves are at the same depth.

Question 173. Define B-tree Of Order M?

Answer: A B-tree of order M is a tree that is not binary with the following structural properties:

- The root is either a leaf or has between 2 and M children.
- All non-leaf nodes (except the root) have between [M/2] and M children.
- All leaves are at the same depth.

Question 174. What Is The Minimum Number Of Nodes In An Avl Tree Of Height H?

Answer: The minimum number of nodes S(h), in an AVL tree of height h is given by S(h)=S(h-1)+S(h-2)+1. For h=0, S(h)=1.

Question 175. Define Heap?

Answer: A heap is defined to be a complete binary tree with the property that the value of each node is atleast as small as the value of its child nodes, if they exist. The root node of the heap has the smallest value in the tree.

Question 176. List The Types Of Rotations Available In Splay Tree?

Answer:



Let us assume that the splay is performed at vertex v, whose parent and grandparent are p and g respectively.

(https://www.wisplomjehs.three/) otations are named as:

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Zig: If p is the root and v is the left child of p, then left-left rotation at p would suffice. This case always terminates the splay as v reaches the root after this rotation.

Zig-Zig: If p is not the root, p is the left child and v is also a left child, then a left-left rotation at g followed by a left-left rotation at p, brings v as an ancestor of g as well as p.

Zig-Zag: If p is not the root, p is the left child and v is a right child, perform a left-right rotation at g and bring v as an ancestor of p as well as g.

Question 177. What Is The Idea Behind Splaying?

Answer: Splaying reduces the total accessing time if the most frequently accessed node is moved towards the root. It does not require to maintain any information regarding the height or balance factor and hence saves space and simplifies the code to some extent.

Question 178. Define Splay Tree?

Answer: A splay tree is a binary search tree in which restructuring is done using a scheme called splay. The splay is a heuristic method which moves a given vertex v to the root of the splay tree using a sequence of rotations.

Question 179. What Do You Mean By Balance Factor Of A Node In Avl Tree?

Answer: The height of left subtree minus height of right subtree is called balance factor of a node in AVL tree. The balance factor may be either 0 or +1 or -1. The height of an empty tree is -1.

Question 180. What Are The Categories Of Avl Rotations?

Answer: Let A be the nearest ancestor of the newly inserted nod which has the balancing factor ±2. Then the rotations can be classified into the following four categories:

Left-Left: The newly inserted node is in the left subtree of the left child of A.

Right-Right: The newly inserted node is in the right subtree of the right child of A.

Left-Right: The newly inserted node is in the right subtree of the left child of A.

Right-Left: The newly inserted node is in the left subtree of the right child of A.

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Question 181. What Do You Mean By Balanced Trees?

these properties, they have some special constraints,

Answer: Balanced trees have the structure of binary (https://www.wisdomjobs.com/) binary search tree properties. Apart from

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which differ from one data structure to another. However, these constraints are aimed only at reducing the height of the tree, because this factor determines the time complexity.

Eg: AVL trees, Splay trees.

Ouestion 182. Define Avl Tree?

Answer: An empty tree is height balanced. If T is a nonempty binary tree with TL and TR as its left and right subtrees, then T is height balanced if

- o TL and TR are height balanced and
- | hL hR | ≤ 1

Where hL and hR are the heights of TL and TR respectively.

Question 183. Define Left-in Threaded Tree?

Answer: Left-in threaded binary tree is defined as one in which each NULL pointers is altered to contain a thread to that node's inorder predecessor.

Question 184. Define Right-in Threaded Tree?

Answer: Right-in threaded binary tree is defined as one in which threads replace NULL pointers in nodes with empty right sub-trees.

Question 185. What Is An Expression Tree?

Answer: An expression tree is a tree which is build from infix or prefix or postfix expression. Generally, in such a tree, the leaves are operands and other nodes are operators.

Question 186. What Is The Use Of Threaded Binary Tree?

Answer: In threaded binary tree, the NULL pointers are replaced by some addresses. The left pointer of the node points to its predecessor and the right pointer of the node points to its successor.

Question 187. Why It Is Said That Searching A Node In A Binary Search Tree Is Efficient Than That Of A Simple Binary Tree?

Answer: In binary search tree, the nodes are arranged in such a way that the left node is having less data value than root node value and the right nodes are having larger value than that of root. Because of this while searching any node

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the value of the target node will be compared with the parent node and accordingly either left sub branch or right (https://www.wisdomicheromi/) be searched. So, one has to compare only particular branches. Thus searching becomes efficient.

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Question 188. Define Ancestor And Descendant?

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Answer: If there is a path from node n1 to n2, then n1 is the ancestor of n2 and n2 is the descendant of n1.

Question 189. What Do You Mean By General Trees?

Answer: General tree is a tree with nodes having any number of children.

Question 190. Define A Binary Search Tree?

Answer: A binary search tree is a special binary tree, which is either empty or it should satisfy the following characteristics:

- Every node has a value and no two nodes should have the same value i.e) the values in the binary search tree are distinct.
- The values in any left sub-tree is less than the value of its parent node.
- The values in any right sub-tree is greater than the value of its parent node.
- The left and right sub-trees of each node are again binary search trees.

Question 191. State The Demerits Of Linked Representation Of Binary Trees?

Answer: • Given a node structure, it is difficult to determine its parent node.

- Memory spaces are wasted for storing null pointers for the nodes, which have one or no sub-trees.
- It requires dynamic memory allocation, which is not possible in some programming language.

Question 192. State The Merit Of Linked Representation Of Binary Trees?

Answer: Insertions and deletions in a node involve no data movement except the rearrangement of pointers, hence less processing time.

Question 193. State The Demerit Of Linear Representation Of Binary Trees?

Answer:



Insertions and deletions in a node take an excessive amount of processing time due to data movement up and sdomiebs.com/)

Question 194. State The Merits Of Linear Representation

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Of Binary Trees?

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Answer: • Storage method is easy and can be easily implemented in arrays.

- When the location of a parent/child node is known, other one can be determined easily.
- It requires static memory allocation so it is easily implemented in all programming language.

Question 195. What Are The Tasks Performed During Postorder Traversal?

Answer: • Traverse the left sub-tree.

- o Traverse the right sub-tree.
- o Process the root node.

Question 196. What Are The Tasks Performed During Inorder Traversal?

Answer: • Traverse the left sub-tree.

- o Process the root node.
- Traverse the right sub-tree.

Question 197. What Are The Tasks Performed During Preorder Traversal?

Answer: • Process the root node.

- o Traverse the left sub-tree.
- o Traverse the right sub-tree.

Question 198. What Are The Tasks Performed While Traversing A Binary Tree?

Answer: • Visiting a node.

- o Traverse the left sub-tree.
- Traverse the right sub-tree.

Question 199. What Are The Different Binary Tree Traversal Techniques?

Answer: o Preorder traversal.

- o Inorder traversal.
- Postorder traversal.
- Levelorder traversal.

Question 200. What Is Meant By Binary Tree Traversal?



Answer: Traversing a binary tree means moving through all the nodes in the binary tree, visiting each node (https://www.wiselometeecom/once.

Question 201. State The Properties Of A Binary Tree?

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Answer: • The maximum number of nodes on level

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n of a binary tree is 2n-1, where $n\ge 1$.

- The maximum number of nodes in a binary tree of height n is 2n-1, where n≥1.
- For any non-empty tree, nl=nd+1 where nl is the number of leaf nodes and nd is the number of nodes of degree 2.

Question 202. Define A Right-skewed Binary Tree?

Answer: A right-skewed binary tree is a tree, which has only right child nodes.

Question 203. Define A Complete Binary Tree?

Answer: A complete binary tree is a tree in which every non-leaf node has exactly two children not necessarily to be on the same level.

Question 204. Define A Full Binary Tree?

Answer: A full binary tree is a tree in which all the leaves are on the same level and every non-leaf node has exactly two children.

Question 205. Define Non-terminal Nodes In A Tree?

Answer: All intermediate nodes that traverse the given tree from its root node to the terminal nodes are referred as non-terminal nodes.

Question 206. Define Terminal Nodes In A Tree?

Answer: A node that has no children is called a terminal node. It is also referred to as leaf node.

Question 207. Define A Path In A Tree?

Answer: A path in a tree is a sequence of distinct nodes in which successive nodes are connected by edges in the tree.

Question 208. Define A Binary Tree?

Answer: A binary tree is a finite set of nodes which is either empty or consists of a root and two disjoint binary trees called the left sub-tree and right sub-tree.

Ouestion 209. Define Forest?

Answer:

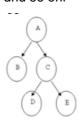


A tree may be defined as a forest in which only a single node (root) has no predecessors. Any forest consists of a (https://www.wischneigha.com/ees.

Question 210. What Do You Mean By Level Of The Tree?

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Answer: The root node is always considered at level zero, then its adjacent children are supposed to be at level 1 and so on.



Here, node A is at level 0, nodes B and C are at level 1 and nodes D and E are at level 2.

Question 211. Define Depth And Height Of A Tree?

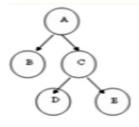
Answer: The depth of the tree is the depth of the deepest leaf. The height of the tree is equal to the height of the root. Always depth of the tree is equal to height of the tree.

Question 212. Define Depth And Height Of A Node?

Answer: For any node ni, the depth of ni is the length of the unique path from the root to ni. The height of ni is the length of the longest path from ni to a leaf.

Question 213. Define Parent Node?

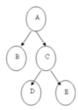
Answer: The node which is having further sub-branches is called the parent node of those sub-branches.



Here C is the parent node of D and E.

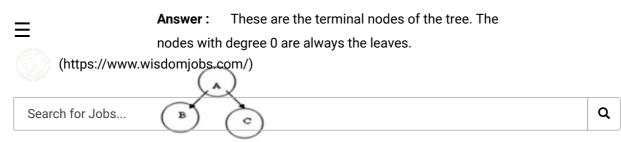
Question 214. Define Internal Nodes?

Answer: The nodes other than the root and the leaves are called internal nodes.



Here, C is the internal node.

Question 215. Define Leaves?



Here C and B are the leave nodes.

Question 216. Define Degree Of The Node?

Answer: The total number of sub-trees attached to that node is called the degree of the node.



For node A, the degree is 2 and for B and C, the degree is 0.

Question 217. Define Root?

Answer: This is the unique node in the tree to which further sub-trees are attached.



Here, A is the root.

Question 218. Define A Tree?

Answer: A tree is a collection of nodes. The collection can be empty; otherwise, a tree consists of a distinguished node r, called the root, and zero or more nonempty (sub) trees T1, T2,...,Tk, each of whose roots are connected by a directed edge from r.

Question 219. Why We Need Cursor Implementation Of Linked Lists?

Answer: Many languages such as BASIC and FORTRAN do not support pointers. If linked lists are required and pointers are not available, then an alternative implementation must be used known as cursor implementation.

Question 220. List The Applications Of Queues?

Answer: o Jobs submitted to printer

- Real life line
- Calls to large companies
- Access to limited resources in Universities
- Accessing files from file server

Question 221. List The Applications Of Stacks?

Answer: o Towers of Hanoi



- · Reversing a string
- Balanced parenthesis

(https://www.wisdomjobeegneidn using stack

Evaluation of arithmetic expressions

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Question 222. What Are The Types Of Queues?

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Answer: • Linear Queues – The queue has two ends, the front end and the rear end. The rear end is where we insert elements and front end is where we delete elements. We can traverse in a linear queue in only one direction ie) from front to rear.

- Circular Queues Another form of linear queue in which the last position is connected to the first position of the list. The circular queue is similar to linear queue has two ends, the front end and the rear end. The rear end is where we insert elements and front end is where we delete elements. We can traverse in a circular queue in only one direction ie) from front to rear.
- Double-Ended-Queue Another form of queue in which insertions and deletions are made at both the front and rear ends of the queue.

Question 223. What Are The Objectives Of Studying Data Structures?

Answer: • To identify and create useful mathematical entities and operations to determine what classes of problems can be solved using these entities and operations.

 To determine the representation of these abstract entities and to implement the abstract operations on these concrete representation.

Question 224. State The Difference Between Persistent And Ephemeral Data Structure?

Answer: Persistent data structures are the data structures which retain their previous state and modifications can be done by performing certain operations on it. Eg) Stack Ephemeral data structures are the data structures which cannot retain its previous state. Eg) Queues.

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Question 225. State The Difference Between Primitive

And Non-primitive Data Types?

(https://www.wisdomjobs.com/) Answer:

types. Eg) int, float, double, char Non-primitive data types are user defined data types. Eg) Structure, Union and

enumerated data types.

Question 226. What Are The Advantages Of Modularity?

Answer: • It is much easier to debug small routines than large routines

- It is easier for several people to work on a modular program simultaneously
- A well-written modular program places certain dependencies in only one routine, making changes easier

Question 227. Define An Abstract Data Type (adt)?

Answer: An abstract data type is a set of operations.

ADTs are mathematical abstractions; now here in an ADT's definition is there any mention of how the set of operations is implemented. Objects such as lists, sets and graphs, along with their operations can be viewed as abstract data types.

Question 228. Define Data Type And What Are The Types Of Data Type?

Answer: Data type refers to the kinds of data that variables may hold in the programming language. Eg) int, float, char, double – C

The following are the types of data type:

- Built in data type- int, float, char, double which are defined by programming language itself
- User defined data type- Using the set of built in data types user can define their own data type

Eg: typedef struct student

```
{
int roll;
char name;
}S;
S s1;
```

Where S is a tag for user defined data type which defines the structure student and s1 is a variable of data type S.

Question 229. Difference Between Abstract Data Type, Data Type And Data Structure?

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Answer:



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 An Abstract data type is the specification of the data type which specifies the logical and

(https://www.wisdomjobaatemhatical model of the data type.

 A data type is the implementation of an abstract data type.

 Data structure refers to the collection of computer variables that are connected in some specific manner.

i.e) Data type has its root in the abstract data type and a data structure comprises a set of computer variables of same or different data types.

Question 230. State The Difference Between Queues And Linked Lists?

Answer: The difference between queues and linked lists is that insertions and deletions may occur anywhere in the linked list, but in queues insertions can be made only in the rear end and deletions can be made only in the front end.

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