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SR.NO	Project NAME	Technology
1	Online E-Learning Platform Hub	React+Springboot+MySql
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql
3	Tour and Travel management System	React+Springboot+MySql
4	Election commition of India (online Voting System)	React+Springboot+MySql
5	HomeRental Booking System	React+Springboot+MySql
6	Event Management System	React+Springboot+MySql
7	Hotel Management System	React+Springboot+MySql
8	Agriculture web Project	React+Springboot+MySql
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql
10	E-commerce web Project	React+Springboot+MySql
11	Hospital Management System	React+Springboot+MySql
12	E-RTO Driving licence portal	React+Springboot+MySql
13	Transpotation Services portal	React+Springboot+MySql
14	Courier Services Portal / Courier Management System	React+Springboot+MySql
15	Online Food Delivery Portal	React+Springboot+MySql
16	Muncipal Corporation Management	React+Springboot+MySql
17	Gym Management System	React+Springboot+MySql
18	Bike/Car ental System Portal	React+Springboot+MySql
19	CharityDonation web project	React+Springboot+MySql
20	Movie Booking System	React+Springboot+MySql

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21	Job Portal web project	React+Springboot+MySql
22	LIC Insurance Portal	React+Springboot+MySql
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
57		React+Springboot+MySql
58		React+Springboot+MySql
59		React+Springboot+MySql
60		React+Springboot+MySql

Spring Boot + React JS + MySQL Project List

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=llOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FIzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/IynIouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyI4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizIyJlh
15	Employee management system project	https://youtu.be/lD1iE3W_GRw?si=Y_jv1xV_BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSlSm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

ADS CCEE Mock Test2

Total points [redacted]

0 of 0 points

Name: *

[redacted]

Centre: *

- (●) Juhu
- ( ) Kharghar

PRN: *

240[redacted]

MCQ

19 of 40 points

✗ What is a memory-efficient double-linked list? * 0/1

- ○ Each node has only one pointer to traverse the list back and forth
- ○ The list has breakpoints for faster traversal
- ◉ An auxiliary singly linked list acts as a helper list to traverse through the doubly linked list ✗
- ○ None of the mentioned

Correct answer

- ◉ Each node has only one pointer to traverse the list back and forth

✓ Which of the following is True about the Spanning Tree? * 1/1

- ◉ A spanning is a minimal set of edges in a graph that contains no cycle, connects all the vertices ✓
- ○ A spanning is a maximal set of edges in a graph that connects all vertices.
- ○ A Graph will have only one possible spanning tree
- ○ None of the above

✗ Let G = (V, G) be a weighted undirected graph and let T be a Minimum Spanning Tree (MST) of G maintained using adjacency lists. Suppose a new weighed edge (u, v) ∈ V×V is added to G. The worst-case time complexity of determining if T is still an MST of the resultant graph is *0/1

- (●) Θ(|E| + |V|) ✗
- ( ) Θ(|E|.|V|)
- ( ) Θ(E| log |V|)
- ( ) Θ(|V|)

Correct answer

- (●) Θ(|V|)

✓ The worst-case time complexity for the linear search algorithm is.... * 1/1

- (●) O(n) ✓
- ( ) O(log n)
- ( ) O(n²)
- ( ) O(n log n)

✓ Consider a binary max-heap implemented using an array. Which one of the following arrays represents a binary max-heap? *1/1

- 25,12,16,13,10,8,14
- 25,14,16,13,10,8,12 ✓
- 25,16,12,13,10,8,14
- 25,14,12,13,10,8,16

✗ We use a dynamic programming approach when * 0/1

- We need an optimal solution ✗
- The solution has an optimal substructure
- The given problem can be reduced to the 3-SAT problem
- It's faster than Greedy

Correct answer

- The solution has an optimal substructure

✗ Let H be a binary min-heap consisting of n elements implemented as an array. What is the worst-case time complexity of an optimal algorithm to find the maximum element in H? *0/1

- (●) Θ(1) ✗
- ( ) Θ(log n)
- ( ) Θ(n)
- ( ) Θ(n log n)

Correct answer

- (●) Θ(n)

✓ Which of the following are not Associative Containers? * 1/1

- (●) priority queue ✓
- ( ) map
- ( ) multimap
- ( ) multiset

✓ A hash function h defined h(key)=key mod 7, with linear probing, is used to insert the keys 44, 45, 79, 55, 91, 18, and 63 into a table indexed from 0 to 6. What will be the location of key 18? *1/1

- ○ 3
- ○ 4
- ◉ 5 ✓
- ○ 6

✗ If you want to store the name and marks of N students, which of the following is the correct choice? *0/1

- ○ An array of structures that contains names and marks as a field.
- ○ A structure containing arrays of Names and arrays of Marks
- ○ An array of names and an Array of marks
- ◉ All of the above ✗

Correct answer

- ◉ An array of structures that contains names and marks as a field.

✗ A tree node with no children is called a..... node. * 0/1

- ○ Leaf node
- ◉ Root node ✗
- ○ Parent node
- ○ Ancestor node

Correct answer

- ◉ Leaf node

✗ What are the time complexities of finding the 8th element from the beginning and the 8th element from the end in a singly linked list? Let n be the number of nodes in a linked list, you may assume that n > 8. *0/1

- ○ O(1) and O(n)
- ○ O(1) and O(1)
- ○ O(n) and O(1)
- ◉ O(n) and O(n) ✗

Correct answer

- ◉ O(1) and O(n)

✓ Consider the following sequence of operations on an empty stack indicated by **'S'**. *1/1

Push(54);push(52);pop();push(55);push(62);s=pop();

Consider the following sequence of operations on an empty queue indicated by **'Q'**

enqueuer(21);

enqueuer(24);

dequeuer();

enqueuer(28);

enqueuer(32);

q=dequeuer();

The value of (**S+Q**) is -------

- 62
- 24
- 86 ✓
- 68

✓ Identify the correct sequence of the below actions for implementing decisions? *1/1

I. Create an action plan

II. Prioritize actions and assign roles

III. Break solution into action steps

IV. Follow-up at milestones

- (●) I, III, II, IV ✓
- ( ) I, II, III, IV
- ( ) I, IV, II, III
- ( ) IV, III, II, I

✗ Which is the safest method to choose a pivot element? * 0/1

- ○ Choosing a random element as a pivot
- ○ Choosing the first element as a pivot
- ○ Choosing the last element as a pivot
- ◉ Median-of-three partitioning method ✗

Correct answer

- ◉ Choosing a random element as a pivot

✗ The recurrence relation capturing the optimal time of the Tower of Hanoi problem with n discs is.--- *0/1

- ○ T(n) = 2T(n-2)+2
- ○ T(n) = 2T(n-1)+n
- ◉ T(n) = 2T(n/2)+1 ✗
- ○ T(n) = 2T(n-1)+1

Correct answer

- ◉ T(n) = 2T(n-1)+1

✓ Let A[1...n] be an array of n distinct numbers. If i < j and A[i] > A[j], then the pair (i, j) is called an inversion of A. What is the expected number of inversions in any permutation on n elements? *1/1

- ○ n(n-1)/2
- ◉ n(n-1)/4 ✓
- ○ n(n+1)/4
- ○ 2n[logn]

✗ Let ‘m’ and ‘n’ be the number of edges and vertices in a graph G, respectively. Which of the following is the time complexity of Kruskal's algorithm to find the minimum spanning tree of G? *0/1

- (●) O(n log n) ✗
- ( ) O(m log m)
- ( ) O(n2)
- ( ) O(m2)

Correct answer

- (●) O(m log m)

✓ In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is *1/1

- ( ) O(log2 n)
- ( ) O(n/2)
- ( ) O(log2 n – 1)
- (●) O(n) ✓

✓ The height of a binary tree is the maximum number of edges in any root-to-leaf path. The maximum number of nodes in a binary tree of height h is: *1/1

- ○ 2^h -1
- ○ 2^(h-1) – 1
- ◉ 2^(h+1) -1 ✓
- ○ 2*(h+1)

✓ The time required to search an element in a linked list of length n is * 1/1

- ○ O(log n)
- ◉ O(n) ✓
- ○ O(1)
- ○ O(n2)

✓ Suppose prevnode, p, nextnode are three consecutive nodes in a Doubly Linked List. Deletion of node p in this Doubly Linked List can be represented by which code snippet? *1/1

[getPrev() method returns the prev node and getNext() method returns the next node in DLL.]

[SetPrev() method sets the prev node value and setNext() method sets the next node value in DLL.]

- ○ p.getPrev().setPrev(p.getNext()); p.getNext().setNext(p.getPrev());
- ○ p.getPrev().setNext(p.getPrev()); p.getNext().setPrev(p.getNext());
- ◉ p.getNext().setPrev(p.getPrev()); p.getPrev().setNext(p.getNext()); ✓
- ○ None of the above

✗ Depth First Search graph traversal method makes use of ..... data structure. *0/1

- (●) Tree ✗
- ( ) Stack
- ( ) Queue
- ( ) Linked list

Correct answer

- (●) Stack

✓ In which of the following tree do the height of the left subtree and the height of the right subtree differ at most by one? *1/1

- (●) AVL Tree ✓
- ( ) Expression Tree
- ( ) Threaded Binary Tree
- ( ) Binary Search Tree

✓ Which of the following types of Linked List support forward and backward traversal? *1/1

- ○ Singly Linked List
- ◉ Doubly Linked List ✓
- ○ Circular Singly Linked List
- ○ All of these

✗ Which of the following algorithm solves the all-pair shortest path algorithm? *0/1

- ◉ Prim's algorithm ✗
- ○ Dijkstra's algorithm
- ○ Bellman-Ford algorithm
- ○ Floyd-Warshall's algorithm

Correct answer

- ◉ Floyd-Warshall's algorithm

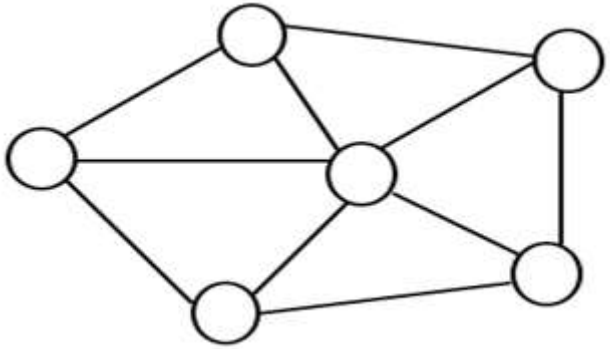
✕ What is the best method to go for the game-playing problem? * 0/1

- (●) Optimal Search ✕
- ( ) Random Search
- ( ) Heuristic Search
- ( ) Stratified Search

Correct answer

- (●) Heuristic Search

✗ What would be the order in which edges are added to form a minimum spanning tree using Kruskal's and Prim's algorithms for the following graph: *0/1



- ○ Kruskal's - AB CD CF AE FE and Prim's - AB AE FE CF CD
- ○ Kruskal's - AB CD CF FE AE and Prim's – AB AE FE CF CD
- ◉ Kruskal's - AB CD CF FE AE and Prim's - AB AE FE CD CF ✗
- ○ Kruskal's – CD AB CF FE AE and Prim's - AB AE FE CF CD

Correct answer

- ◉ Kruskal's - AB CD CF FE AE and Prim's – AB AE FE CF CD

✓ Which one of the following is an application of Stack Data Structure? * 1/1

- ○ Managing function calls
- ○ The stock span problem
- ○ Arithmetic expression evaluation
- ◉ All of the above ✓

✓ Which one of the following is the tightest upper bound that represents the time complexity of inserting an object into a binary search tree of n nodes? *1/1

- ○ O(1)
- ○ O(logn)
- ◉ O(n) ✓
- ○ O(nlogn)

✗ **Statement 1:** When applying the Backtracking algorithm, all choices made can be undone when needed. *0/1

Statement 2: When applying the Backtracking algorithm, the worst-case scenario is, that it exhaustively tries all paths, traversing the entire search space

- ○ Both, Statements 1 and 2, are true
- ○ Statement 1 is true, Statement 2 is false
- ◉ Statement 2 is true, Statement 1 is false ✗
- ○ Both, Statements 1 and 2, are false

Correct answer

- ◉ Both, Statements 1 and 2, are true

✗ The integrity of transmitted data can be verified by using ..... * 0/1

- ○ Hash Message Authentication Code (HMAC)
- ○ Timestamp comparison
- ◉ Data length comparison ✗
- ○ None of these

Correct answer

- ◉ Hash Message Authentication Code (HMAC)

✗ The value returned by Hash Function is called as..... * 0/1

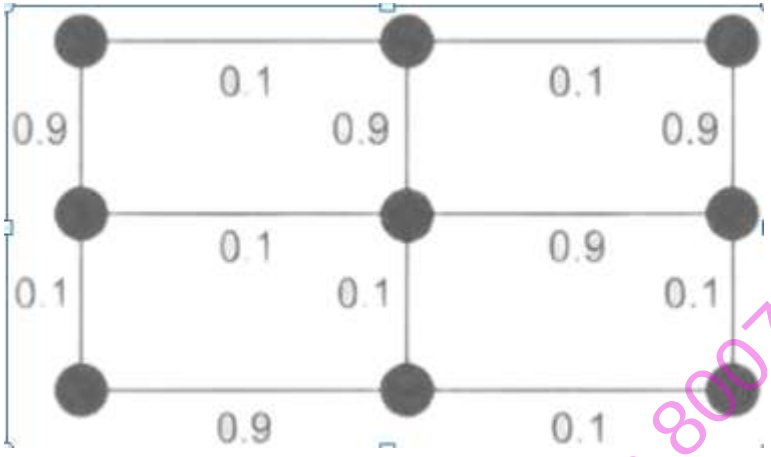
- ○ Digest
- ○ Hash value
- ◉ Hash code ✗
- ○ All of these

Correct answer

- ◉ All of these

✗ Consider the following undirected graph with edge weights as shown: * 0/1

The number of minimum-weight spanning trees of the graph is ----



- ○ 3
- ○ 4
- ◉ 5 ✗
- ○ 2

Correct answer

- ◉ 3

✗ In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is--- *0/1

- ○ log2 n
- ○ n/2
- ◉ log2 (n-1) ✗
- ○ n

Correct answer

- ◉ n

✗ The postfix equivalent of prefix expression * + a b – c d is * 0/1

- ○ a b + c d - *
- ○ a b c d + - *
- ◉ a b + c d * - ✗
- ○ a b + - c d *

Correct answer

- ◉ a b + c d - *

✓ Consider the following array. *1/1

23,32,45,69,72,73,89,97

Which algorithm out of the following options uses the least number of comparisons (among the array elements) to sort the above array in ascending order?

- ○ Selection sort
- ○ Merge sort
- ◉ Insertion sort ✓
- ○ Quicksort using the last element as a pivot

✓ Which of the following algorithm design techniques is used in finding all pairs of shortest distances in a graph (Warshall algorithms)? *1/1

- (●) Dynamic programming ✓
- ( ) Back Tracking
- ( ) Greedy
- ( ) Divide & Conquer

✓ A digraph is said to be COMPLETE, if it has N vertices and .....edges. * 1/1

- ( ) N*N
- ( ) N-1
- (●) N*(N-1) ✓
- ( ) N*(N-1)/2

✗ A complete n-ary tree is a tree in which each node has n children or no children. Let I be the number of internal nodes and L be the number of leaves in a complete n-ary tree. If L = 41, and I = 10, what is the value of n? *0/1

- ○ 6
- ○ 3
- ◉ 4 ✗
- ○ 5

Correct answer

- ◉ 5

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