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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=ILOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?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=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W_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=fiDvrhhrjb4KSIsm
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 Test1

Total points 14/40 ?

0 of 0 points

Centre: *

- ☒ Juhu
- ☐ Kharghar

Name: *

amol magar

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220940520015

MCQ

14 of 40 points

✓ 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



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

- ☒ Tree
- ☐ Stack
- ☐ Queue
- ☐ Linked list

Correct answer

- ☒ Stack

✗

✗ Which of the following algorithm design techniques is used in finding all pairs of shortest distances in a graph (Warshall algorithms)? *0/1

- ☐ Dynamic programming
- ☐ Back Tracking
- ☐ Greedy
- ☒ Divide & Conquer

Correct answer

- ☒ Dynamic programming

✗

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

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



- ☒ 3
- ☐ 4
- ☐ 5
- ☐ 2

✓

✗ Which of the following is True about the Spanning Tree? * 0/1

- ☐ 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

Correct answer

- ☒ A spanning is a minimal set of edges in a graph that contains no cycle, connects all the vertices

✗ Consider a binary max-heap implemented using an array. Which one of the following arrays represents a binary max-heap? *0/1

☐ 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

Correct answer

☒ 25, 14, 16, 13, 10, 8, 12

✗ 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

☒ $O(n \log n)$

✗

☐ $O(m \log m)$

☐ $O(n^2)$

☐ $O(m^2)$

Correct answer

☒ $O(m \log m)$

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✗ 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

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

☐ $O(\log n)$

☒ $O(n)$

☐ $O(1)$

☐ $O(n^2)$

✓

✓ 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 are not Associative Containers? *

0/1

- ☐ priority queue
- ☐ map
- ☒ multimap
- ☐ multiset

✗

Correct answer

- ☒ priority queue

✗ 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: *0/1

- ☒ $2^h - 1$
- ☐ $2^{(h-1)} - 1$
- ☐ $2^{(h+1)} - 1$
- ☐ $2^{*(h+1)}$

✗

Correct answer

- ☒ $2^{(h+1)} - 1$

✓ A hash function h defined $h(\text{key}) = \text{key} \bmod 7$, 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

✓

✗ Consider the following array.

*0/1

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

✗

Correct answer

- ☒ Insertion sort

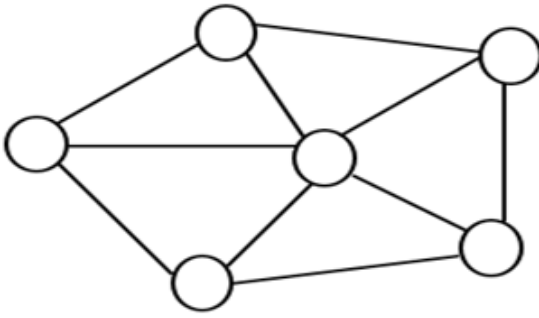
✓ In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is *1/1

- ☐ $O(\log_2 n)$
- ☐ $O(n/2)$
- ☐ $O(\log_2 n - 1)$
- ☒ $O(n)$

✓

- ✓ 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:

*1/1



- ☐ 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

✓

- ✗ 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

✗ 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

✗ 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

✓ 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

✓

✓ The integrity of transmitted data can be verified by using *

1/1

- ☒ Hash Message Authentication Code (HMAC) ✓
- ☐ Timestamp comparison
- ☐ Data length comparison
- ☐ None of these

✗ 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

✓ 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? * 1/1

- ☐ $\Theta(1)$
- ☐ $\Theta(\log n)$
- ☒ $\Theta(n)$ ✓
- ☐ $\Theta(n \log n)$

✗ 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? *0/1

- ☐ $O(1)$
- ☐ $O(\log n)$
- ☐ $O(n)$
- ☒ $O(n \log n)$

✗

Correct answer

- ☒ $O(n)$

✗ 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

- ☒ $T(n) = 2T(n-1) + 1$

✓ A tree node with no children is called a..... node. *

1/1

- ☒ Leaf node
- ☐ Root node
- ☐ Parent node
- ☐ Ancestor node

✓



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

0/1

- ☐ Digest
- ☐ Hash value
- ☒ Hash code
- ☐ All of these

✗

Correct answer

- ☒ All of these

✗ Identify the correct sequence of the below actions for implementing decisions?

*0/1

- 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

✗

Correct answer

- ☒ I, III, II, IV

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

- ☐ $N*N$
- ☐ $N-1$
- ☒ $N*(N-1)$
- ☐ $N*(N-1)/2$

✓



✗ 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

☒ $a b + c d - *$

✗ 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 $O(n)$

✓ 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

☐ $\log_2 n$

☐ $n/2$

☐ $\log_2 (n-1)$

☒ 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'

enqueueer(21);

enqueueer(24);

dequeueer();

enqueueer(28);

enqueueer(32);

q=dequeueer();

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

☐ 62

☐ 24

☒ 86

☐ 68

✓

✗ 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

✗

✗ **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 worst-case time complexity for the linear search algorithm is.... * 0/1

- ☐ $O(n)$
- ☐ $O(\log n)$
- ☒ $O(n^2)$
- ☐ $O(n \log n)$

Correct answer

- ☒ $O(n)$



✗ Let $A[1 \dots n]$ 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? *0/1

- ☐ $n(n-1)/2$
- ☐ $n(n-1)/4$
- ☒ $n(n+1)/4$
- ☐ $2n \lceil \log n \rceil$

✗

Correct answer

- ☒ $n(n-1)/4$

✗ 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? *0/1

[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

✗

Correct answer

- ☒ `p.getNext().setPrev(p.getPrev()); p.getPrev().setNext(p.getNext());`

✗ 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 $(u, v) \in V \times V$ is added to G . The worst-case time complexity of determining if T is still an MST of the resultant graph is *0/1

- ☐ $\Theta(|E| + |V|)$
- ☒ $\Theta(|E|.|V|)$
- ☐ $\Theta(|E| \log |V|)$
- ☐ $\Theta(|V|)$

Correct answer

- ☒ $\Theta(|V|)$

✗ 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.

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