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3	Tour and Travel management System	React+Springboot+MySQL
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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
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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=IiOS-QG3TpAFP5k7
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8	Hospital management system Project	https://youtu.be/lynLouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5iF
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=8eWA OzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802i7N

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10 ✓	24 ✓	38
11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

1. Why graph traversal is difficult than tree traversal?

- A. because tree have root
- B. because tree is binary
- C. because tree is undefined
- D. All the above

A B C D

2. Convert the following expression into postfix expression:

$$L^*(M+N)^*O$$

- A. L^*MN+O^*
- B. $LM+^*NO^*$
- C. $LMN+^*O^*$
- D. None of these

A B C D

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13	27	
14 ✓	28 ✓	

3. For unsuccessful cases of Binary search, the maximum number of searches would be:

- A. $\Theta(n)$
- B. $\Theta(1)$
- C. $\Theta(\log n)$
- D. None of the above

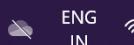
A B C D

4. Which of the following about Tree is false?

- A. Tree is acyclic connected graph
- B. Tree is non-linear data structure
- C. There can be multiple root nodes in tree
- D. The height or depth of tree is defined to be maximum level of node in that tree

A B C D

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11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

5. What will be the output of in-order traversal for below BST?

```
graph TD; A((A)) --> B((B)); A --> C((C)); B --> D((D)); B --> E((E)); C --> F((F)); C --> G((G))
```

A. A B D E C F G
B. D E B F G C A
C. D B E A F C G
D. A B C D E F G

6. Consider a hash table of size $m = 10000$, and the hash function $h(K) = \text{floor}(m(KA \bmod 1))$ for A

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12 ✓	26	40
13	27	
14 ✓	28 ✓	

6. Consider a hash table of size $m = 10000$, and the hash function $h(K) = \text{floor}(m(KA \bmod 1))$ for $A = (\sqrt{5} - 1)/2$. The key 123456 is mapped to location _____.

- A. 46
- B. 41
- C. 43
- D. 48

A B C D [Clear Answer](#) [Mark For Review](#)

7. Consider a 13 element hash table for which $f(\text{key}) = \text{key mod } 13$ is used with integer keys. Assuming linear probing is used for collision resolution, at which location would the key 103 be inserted, if the keys 661, 182, 24 and 103 are inserted in that order?

- A. 0
- B. 1
- C. 11
- D. 12

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12 ✓	26	40
13	27	
14 ✓	28 ✓	

10. _____ is a(n) _____ that stores elements formed by combination of key value and mapped value.

- A. Unordered_map, unordered associative container
- B. Unordered_set, sequence container
- C. Unorder_multimap, container adaptors
- D. None of these

A B C D [Clear Answer] [Mark For Review]

11. Build binary search tree for following data & state the number of nodes in Right subtree & Left subtree.

50,40,55,35,45,76,74,80,25,38,51

- A. 06,04
- B. 05,05
- C. 07,03
- D. 04,06

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13	27	
14 ✓	28 ✓	

A B C D

12. Which of the following is correct sequence using Linear Probing for below input?

12,28,5,40,92,35

- A. 12,92,5,35,40,28
- B. 40,12,92,5,35,28
- C. 40,12,5,92,35,28
- D. 40,12,92,28,5,35

A B C D

13. Which of the following on which Bellman Ford algorithm can apply?

- A. Directed graph
- B. Weighted graph
- C. Both A & B
- D. Undirected graph

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13	27	
14 ✓	28 ✓	

14. Sparse matrix will be commonly represented by _____.

- A. Graph
- B. Circular Linked list
- C. Doubly Linked list
- D. None of the above

A B C D

15. Which of the problems cannot be solved by backtracking method?

- A. n-queen problem
- B. subset sum problem
- C. Hamiltonian circuit problem
- D. travelling salesman problem

A B C D

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13	27	
14 ✓	28 ✓	

A B C D

16. What does the following function do for a given Linked List with first node as *head*?

```
void fun1(struct node* head)
{
    if(head == NULL)
        return;
    fun1(head->next);
    printf("%d ", head->data);
}
```

- A. Prints all nodes of linked lists
- B. Prints all nodes of linked list in reverse order
- C. Prints alternate nodes of Linked List
- D. Prints alternate nodes in reverse order

A B C D

17. If several elements are competing for the same bucket in the hash table, is it called as:

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13	27	
14 ✓	28 ✓	

17. If several elements are competing for the same bucket in the hash table, is it called as:

- A. Diffusion
- B. Replication
- C. Collision
- D. Duplication

A B C D

18. The hash function is:

$$H_1(k) = k \% 50.$$

In the case of collision, the hash function used is: $H(k) = (H_1(k) + M \times H_2(k)) \% 50$

where $H_1(k) = k \% 50$ and $H_2(k) = k \% 20$.

M is initialized to 0 and is incremented by 1 each time a collision occurs.

This could be categorized under which of the following collision detection technique?

- A. Linear Probing
- B. Quadratic Probing
- C. Re-Hashing
- D. Double Hashing

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10 ✓	24 ✓	38
11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

19. If the file is sorted in reverse order, how many comparisons are required to sort a file in insertion sort?

- A. N²
- B. N
- C. N-1
- D. N/2

A B C D

20. The worst-case time complexity of Quick Sort is:

- A. O(n²)
- B. O(log n)
- C. O(n)
- D. O(n log n)

A B C D

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11 ✓	25 ✓	39
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13	27	
14 ✓	28 ✓	

- A. $O(n^2)$
- B. $O(\log n)$
- C. $O(n)$
- D. $O(n \log n)$

A B C D

21. Qualitative analysis and quantitative analysis include:

- A. Deciding the goals
- B. Analysis on scalability, concurrency and load handling
- C. Assigning weight to objectives to make the best decision
- D. Stability and reliability

A B C D

22. What will be the output of below code snippet?

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12 ✓	26	40
13	27	
14 ✓	28 ✓	

22. What will be the output of below code snippet?

```
#include<iostream>
#include<stack>
using namespace std;
int main()
{
    stack<int> stk;
    stk.push(11);
    stk.push(22);
    stk.push(33);
    stk.pop();
    if(!stk.empty()){
        cout<<"\n"<<stk.top();
    }
    return 0;
}
```

- A. 33
- B. 22
- C. 2
- D. 0

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13	27	
14 ✓	28 ✓	

23. The number of leaf nodes in a rooted tree of n nodes, with each node having 0 or 3 children is:

- A. $n/2$
- B. $(n-1)/3$
- C. $(n-1)/2$
- D. $(2n+1)/3$

A B C D Clear Answer Mark For Review

24. 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 ?

- A. 6
- B. 3
- C. 4
- D. 5

A B C D Clear Answer Mark For Review

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11 ✓	25 ✓	39
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13	27	
14 ✓	28 ✓	

25. What will be the output of following code snippet?

```
#include<vector>
#include<iostream>
#include<string>
#include<list>
using namespace std;
int main(){
    vector<string> vct {"Alia", "Deepika", "Priyanka", "Madhuri", "Aishwarya"};
    vector<string>::iterator mid= (vct.begin() + vct.size()) / 2;
    vector<string>::iterator start = vct.begin();
    vector<string>::iterator last = vct.end();
    list<string> ll(mid, last);
    list<string>::iterator listbegin=ll.begin();
    listbegin++;
    cout<<"\n" << *listbegin;
    return 0;
}
```

- A. Priyanka
- B. Aishwarya
- C. Deepika
- D. Madhuri

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13	27	
14 ✓	28 ✓	

26. Which one of the following in place of sorting algorithms needs the minimum number of swaps?

- A. Quick sort
- B. Insertion sort
- C. Selection sort
- D. Heap sort

A B C D

27. You have to sort a list L, consisting of a sorted list followed by a few 'random' elements. Which of the following sorting methods would be most suitable for such a task?

- A. Bubble sort
- B. Selection sort
- C. Quick sort
- D. Insertion sort

A B C D

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- A. Bubble sort
- B. Selection sort
- C. Quick sort
- D. Insertion sort

A B C D [Clear Answer](#) [Mark For Review](#)

28. Programmer wants to implement Array class which should be able to store integer values and float values depending on instantiation of class. Which of the following concepts would you suggest?

- A. Function Overloading
- B. Function Template
- C. Class Template
- D. Virtual Function

A B C D [Clear Answer](#) [Mark For Review](#)

29. What will be the output of below code snippet?

```
#include<iostream>
```

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13	27	
14 ✓	28 ✓	

29. What will be the output of below code snippet?

```
#include<iostream>
#include<map>
#include<string>
using namespace std;
int main() {
    map<int,string> mp;
    mp[111]="Siddhi";
    mp[222]="Shiv";
    auto itr = mp.find(222);
    cout<<"\n"<< itr->second;
    return 0;
}
```

- A. Compilation Error
- B. No output
- C. Shiv
- D. 222

A B C D [Clear Answer](#) [Mark For Review](#)

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Vinod S. Kandale (11190840420106)

PGDAC

Session Id:4975

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1	15	29 ✓
2 ✓	16 ✓	30 ✓
3 ✓	17 ✓	31 ✓
4 ✓	18 ✓	32 ✓
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8	22 ✓	36
9 ✓	23	37 ✓
10 ✓	24 ✓	38
11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

30. Which one of the following is an application of Stack Data Structure?

- A. Managing function calls
- B. The stock span problem
- C. Arithmetic expression evaluation
- D. All of the above

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31. Suppose each set is represented as a linked list with elements in arbitrary order. Which operation(s) is (are) slowest amongst union, intersection, membership, cardinality?

- A. Union Only
- B. Intersection, membership
- C. Membership, cardinality
- D. Union, intersection

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32. The concatenation of two lists is to be performed in O(1) time. Which of the following

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- A. Union Only
- B. Intersection, membership
- C. Membership, cardinality
- D. Union, intersection

A B C D

32. The concatenation of two lists is to be performed in O(1) time. Which of the following implementations of a list should be used?

- A. Singly linked list
- B. Doubly linked list
- C. Circular singly linked list
- D. Array implementation of list

A B C D

33. Calculate space & time complexity of the following code.

```
int x=0, y=0;
```

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11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

33. Calculate space & time complexity of the following code.

```
int x=0, y=0;
for (i=0; i<p; i++)
{
    x = x + add();
}
for (j=0; j<q; j++)
{
    y = y + sub();
}
```

- A. Space complexity – O(1) , Time Complexity– O(p*q)
- B. Space complexity – O(p + q) , Time Complexity– O(p*q)
- C. Space complexity – O(1) , Time Complexity– O(p+q)
- D. Space complexity – O(p*q) , Time Complexity– O(p*q)

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34. Ω notation can be useful when we have _____ on time complexity of an algorithm.

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14 ✓	28 ✓	

34. Ω notation can be useful when we have _____ on time complexity of an algorithm.

- A. Upper Bound
- B. Lower bound
- C. Least Upper Bound
- D. None of the above

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35. How many vertices are there in a complete graph with n vertices?

- A. $(n*(n-1))/2$
- B. $(n*(n+1))/2$
- C. $n+1$
- D. None of the above

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36. What will be the sum of degrees of each vertice for undirected graph G, if it has n vertices and e

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11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

36. What will be the sum of degrees of each vertex for undirected graph G, if it has n vertices and e edges?

- A. $2e$
- B. $2ne$
- C. ne
- D. None of the above

A B C D Clear Answer Mark For Review

37. Which data structure will be used for implementing dijkstra's shortest path algorithm on unweighted graph in a way that it also runs linearly?

- A. Tree
- B. Queue
- C. Stack
- D. Heap

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10 ✓	24 ✓	38
11 ✓	25 ✓	39
12 ✓	26	40
13	27	
14 ✓	28 ✓	

38. Which type of data structure is used in Depth First Search?

- A. Stack
- B. Tree
- C. Queue
- D. Graph

A B C D

39. Which of the following statement about adjacency matrix is(are) wrong?

- 1. Adjacency matrices/matrix takes $O(n^2)$ time to determine edges in G graph.
- 2. One can easily determine whether there is an edge connecting two vertices.
- 3. Adjacency matrix for undirected graph is asymmetric
- 4. None of the above

- A. 1 & 2
- B. 1 & 3
- C. 3 Only
- D. 4 Only

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40. What should be the output of below program? Assume that required header files are included.

```
int main()
{
    std::list<std::string> listOfStr;
    listOfStr.push_back("1");
    listOfStr.push_back("2");
    listOfStr.push_back("3");
    listOfStr.push_back("4");
    // Initialize a vector with std::list
    std::vector<std::string> vecOfStr(listOfStr.begin(), listOfStr.end());
    for(std::string str : vecOfStr)
        std::cout<<str;
    return 0;
}
```

- A. 1 2 3 4
- B. 1234
- C. 1
- 2
- 3
- 4
- D. 0123

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