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3	<b>Tour and Travel management System</b>	React+Springboot+MySQL
4	<b>Election commition of India (online Voting System)</b>	React+Springboot+MySQL
5	<b>HomeRental Booking System</b>	React+Springboot+MySQL
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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
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46	FarmerMarketplace Web Project	React+Springboot+MySQL
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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	<a href="https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW">https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW</a>
2	PG Mate / Room sharing/Flat sharing	<a href="https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp">https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp</a>
3	Tour and Travel System Project Version 1.0	<a href="https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12">https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12</a>
4	Marriage Hall Booking	<a href="https://youtu.be/VXz0kZQi5to?si=IiOS-QG3TpAFP5k7">https://youtu.be/VXz0kZQi5to?si=IiOS-QG3TpAFP5k7</a>
5	Ecommerce Shopping project	<a href="https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq">https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq</a>
6	Bike Rental System Project	<a href="https://youtu.be/FIzsAmIBCbk?si=7ujQTJqEgkQ8ju2H">https://youtu.be/FIzsAmIBCbk?si=7ujQTJqEgkQ8ju2H</a>
7	Multi-Restaurant management system	<a href="https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB">https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB</a>
8	Hospital management system Project	<a href="https://youtu.be/lynLouBZvY4?si=CXzQs3BsRkjKhZCw">https://youtu.be/lynLouBZvY4?si=CXzQs3BsRkjKhZCw</a>
9	Municipal Corporation system Project	<a href="https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5iF">https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5iF</a>
10	Tour and Travel System Project version 2.0	<a href="https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ">https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ</a>

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	<a href="https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug">https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug</a>
12	Gym Management system Project	<a href="https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX">https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX</a>
13	Online Driving License system Project	<a href="https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn">https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn</a>
14	Online Flight Booking system Project	<a href="https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh">https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh</a>
15	Employee management system project	<a href="https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H">https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H</a>
16	Online student school or college portal	<a href="https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD">https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD</a>
17	Online movie booking system project	<a href="https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSISm">https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSISm</a>
18	Online Pizza Delivery system project	<a href="https://youtu.be/Tp3izreZ458?si=8eWA OzA8SVdNwlyM">https://youtu.be/Tp3izreZ458?si=8eWA OzA8SVdNwlyM</a>
19	Online Crime Reporting system Project	<a href="https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO">https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO</a>
20	Online Children Adoption Project	<a href="https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802i7N">https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802i7N</a>

# ADS TEST 1

Total points 26/40

**TIME-60 minutes, 40 question**

The respondent's email ([shreyasbhatkar22@gmail.com](mailto:shreyasbhatkar22@gmail.com)) was recorded on submission of this form.

- ✓ Which of the following is the correct way to declare a multidimensional array in Java? 1/1

- a) int[] arr;
- d) int[][] arr;
- b) int arr[][],
- c) int[][],arr;



- ✗ Elements in an array are accessed \_\_\_\_\_ 0/1

- a) randomly
- b) sequentially
- c) exponentially
- d) logarithmically



Correct answer

- a) randomly

✓ A linear collection of data elements where the linear node is given by means of pointer is called? 1/1

- a) Linked list ✓
- b) Node list
- c) Primitive list
- d) Unordered list

✓ A data structure in which elements can be inserted or deleted at/from both ends but not in the middle is? 1/1

- a) Queue
- b) Circular queue
- c) Dequeue ✓
- d) Priority queue

1/1

```
public class array
{
    public static void main(String args[])
    {
        int []arr = {1,2,3,4,5};
        System.out.println(arr[5]);
    }
}
```

- a) 4
- b) 5
- c) ArrayIndexOutOfBoundsException
- d) InvalidInputException

How many children does a binary tree have?

- a) 2
- b) any number of children
- c) 0 or 1 or 2
- d) 0 or 1

Correct answer

- c) 0 or 1 or 2

CENTRE \*

JUHU ▾

- ✓ Which of the following traversing algorithm is not used to traverse in a tree? 1/1

- a) Post order
- b) Pre order
- c) Post order
- d) Randomized



- ✗ What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list? 0/1

- a)  $O(1)$
- b)  $O(n)$
- c)  $\Theta(n)$
- d)  $\Theta(1)$



Correct answer

- c)  $\Theta(n)$

✓ Entries in a stack are “ordered”. What is the meaning of this statement? 1/1

- a) A collection of stacks is sortable
- b) Stack entries may be compared with the ‘<’ operation
- c) The entries are stored in a linked list
- d) There is a Sequential entry that is one by one

✓ 1/1

What is the functionality of the following piece of code?

```
public int function()  
{  
    Node temp = tail.getPrev();  
    tail.setPrev(temp.getPrev());  
    temp.getPrev().setNext(tail);  
    size--;  
    return temp.getItem();  
}
```

- a) Return the element at the tail of the list but do not remove it
- b) Return the element at the tail of the list and remove it from the list ✓
- c) Return the last but one element from the list but do not remove it
- d) Return the last but one element at the tail of the list and remove it from the list

✗ Which of the following sorting algorithms can be used to sort a random linked list with minimum time complexity? 0/1

- a) Insertion Sort
- b) Quick Sort ✗
- c) Heap Sort
- d) Merge Sort

Correct answer

- d) Merge Sort

✗ Disadvantages of linked list representation of binary trees over arrays? 0/1

- a) Randomly accessing is not possible
- b) Extra memory for a pointer is needed with every element in the list ✗
- c) Difficulty in deletion
- d) Random access is not possible and extra memory with every element

Correct answer

- d) Random access is not possible and extra memory with every element

✓ 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

- a)  $\log_2 n$
- b)  $n/2$
- c)  $\log_2 n - 1$
- d) n

✓ Circular Queue is also known as \_\_\_\_\_ 1/1

- a) Ring Buffer ✓
- b) Square Buffer
- c) Rectangle Buffer
- d) Curve Buffer

✗ Can a tree stored in an array using either one of inorder or post order or pre order traversals be again reformed? 0/1

- a) Yes just traverse through the array and form the tree
- b) No we need one more traversal to form a tree
- c) No in case of sparse trees ✗
- d) Yes by using both inorder and array elements

Correct answer

- b) No we need one more traversal to form a tree

✓ Level order traversal of a tree is formed with the help of

1/1

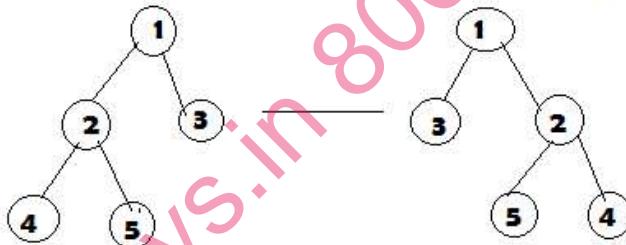
- a) breadth first search
- b) depth first search
- c) dijkstra's algorithm
- d) prims algorithm

✓

✓

1/1

9. What must be the missing logic below so as to print mirror of a tree as below as an example?



```
if(rootnode):
    mirror(rootnode-->left)
    mirror(rootnode-->right)

    //missing

end
```

- a) swapping of left and right nodes is missing
- b) swapping of left with root nodes is missing
- c) swapping of right with root nodes is missing
- d) nothing is missing

✓

**EMAIL \***

shreyasbhatkar22@gmail.com

**X** What is the time complexity of pre-order traversal in the iterative fashion? 0/1

- a)  $O(1)$
- b)  $O(n)$
- c)  $O(\log n)$
- d)  $O(n \log n)$

Correct answer

- b)  $O(n)$

**X****X** The optimal data structure used to solve Tower of Hanoi is \_\_\_\_\_ 0/1

- a) Tree
- b) Heap
- c) Priority queue
- d) Stack

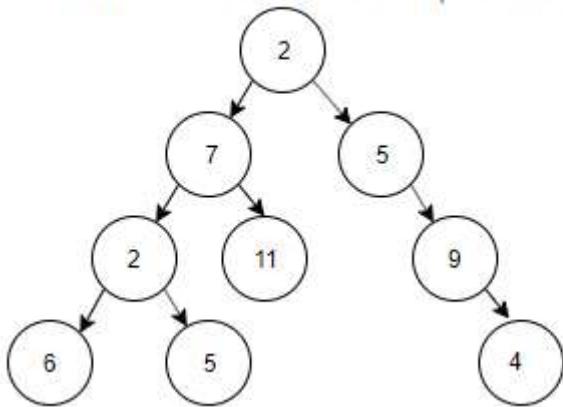
**X**

Correct answer

- d) Stack

1/1

1. For the tree below, write the pre-order traversal.



- a) 2, 7, 2, 6, 5, 11, 5, 9, 4
- b) 2, 7, 5, 2, 6, 9, 5, 11, 4
- c) 2, 5, 11, 6, 7, 4, 9, 5, 2
- d) 2, 7, 5, 6, 11, 2, 5, 4, 9

**How do you calculate the pointer difference in a memory efficient double linked list?** 0/1

- a) head xor tail
- b) pointer to previous node xor pointer to next node
- c) pointer to previous node – pointer to next node
- d) pointer to next node – pointer to previous node

Correct answer

- b) pointer to previous node xor pointer to next node

✓ In general, the index of the first element in an array is \_\_\_\_\_

1/1

- a) 0
- b) -1
- c) 2
- d) 1

✓

✗ . What would be the asymptotic time complexity to find an element in the linked list? 0/1

- a)  $O(1)$
- b)  $O(n)$
- c)  $O(n^2)$
- d)  $O(n^4)$

✗

Correct answer

- b)  $O(n)$

✓ In linked list each node contains a minimum of two fields. One field is data field to store the data second field is? 1/1

- a) Pointer to character
- b) Pointer to integer
- c) Pointer to node
- d) Node

✓

✓ The prefix form of A-B/ (C \* D ^ E) is?

1/1

- a) -/\*^ACBDE
- b) -ABCD\*^DE
- c) -A/B\*C^DE
- d) -A/BC\*^DE

✓

✓ The postfix form of the expression  $(A+B)*(C*D-E)*F/G$  is?

1/1

- a) AB+ CD\*E – FG /\*\*
- b) AB + CD\* E – F \*\*G /
- c) AB + CD\* E – \*F \*G /
- d) AB + CDE \* – \* F \*G /

✓

✓ A normal queue, if implemented using an array of size MAX\_SIZE, gets full when?

1/1

- a) Rear = MAX\_SIZE – 1
- b) Front = (rear + 1)mod MAX\_SIZE
- c) Front = rear + 1
- d) Rear = front

✓

✗ What data structure would you mostly likely see in non recursive implementation of a recursive algorithm?

0/1

- a) Linked List
- b) Stack
- c) Queue
- d) Tree

Correct answer

- b) Stack

✓ You are given pointers to first and last nodes of a singly linked list, which of 1/1 the following operations are dependent on the length of the linked list?

- a) Delete the first element
- b) Insert a new element as a first element
- c) Delete the last element of the list
- d) Add a new element at the end of the list

✓

✗ The data structure required for Breadth First Traversal on a graph is? 0/1

- a) Stack
- b) Array
- c) Queue
- d) Tree

Correct answer

- c) Queue

✗ Linked lists are not suitable for the implementation of \_\_\_\_\_ 0/1

- a) Insertion sort
- b) Radix sort
- c) Polynomial manipulation
- d) Binary search

Correct answer

- d) Binary search

✓ What is/are the disadvantages of implementing tree using normal arrays? 1/1

- a) difficulty in knowing children nodes of a node
- b) difficult in finding the parent of a node
- c) have to know the maximum number of nodes possible before creation of trees ✓
- d) difficult to implement

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✓ What is the time complexity of the following code?

1/1

```
public boolean isBalanced(String exp)
{
    int len = exp.length();
    Stack<Integer> stk = new Stack<Integer>();
    for(int i = 0; i < len; i++)
    {
        char ch = exp.charAt(i);
        if (ch == '(')
            stk.push(i);
        else if (ch == ')')
        {
            if(stk.peek() == null)
            {
                return false;
            }
            stk.pop();
        }
    }
    return true;
}
```

- a)  $O(\log n)$
- b)  $O(n)$
- c)  $O(1)$
- d)  $O(n \log n)$

✓

✗ To obtain a prefix expression, which of the tree traversals is used?

0/1

- a) Level-order traversal
- b) Pre-order traversal
- c) Post-order traversal
- d) In-order traversal

Correct answer

- b) Pre-order traversal

✗

✓ Which of the following code is used to create new node?

1/1

```
struct node
{
    int data;
    struct node * next;
}
typedef struct node NODE;
NODE *ptr;
```

- a) ptr = (NODE\*)malloc(sizeof(NODE));
- b) ptr = (NODE\*)malloc(NODE);
- c) ptr = (NODE\*)malloc(sizeof(NODE\*));
- d) ptr = (NODE)malloc(sizeof(NODE));

✓

✓ The prefix form of an infix expression  $(p + q) - (r * t)$  is?

1/1

- a)  $+ pq - * rt$
- b)  $- + pqr * t$
- c)  $- + pq * rt$
- d)  $- + * pqrt$



✓ What is the value of the postfix expression  $6\ 3\ 2\ 4\ +\ -\ *?$

1/1

- a) 1
- b) 40
- c) 74
- d) -18



✗ Which of the following is not the application of stack?

0/1

- a) A parentheses balancing program
- b) Tracking of local variables at run time
- c) Compiler Syntax Analyzer
- d) Data Transfer between two asynchronous process



Correct answer

- d) Data Transfer between two asynchronous process

✓ In a stack, if a user tries to remove an element from an empty stack it is called \_\_\_\_\_ 1/1

- a) Underflow ✓
- b) Empty collection
- c) Overflow
- d) Garbage Collection

✓ Which among the following is not a palindrome? 1/1

- a) Madam
- b) Dad
- c) Malayalam
- d) Maadam ✓

NAME \*

Shreyas Bhatkar

- ✓ If the elements "A", "B", "C" and "D" are placed in a queue and are deleted one at a time, in what order will they be removed? 1/1

- a) ABCD ✓
- b) DCBA
- c) DCAB
- d) ABDC

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