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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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| 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 |

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|----|--|------------------------|
| 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 | Online Examination Portal Project | React+Springboot+MySQL |
| 58 | Lawyer / Advocate Appointment Booking System | React+Springboot+MySQL |
| 59 | Café Management System | React+Springboot+MySQL |
| 60 | Agriculture Product Rent system Portal | |

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 |
| 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/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 |

Project List

| Sr.No | Project Name | YouTube Link |
|-------|---|---|
| 21 | Online Bus ticket booking system Project | https://youtu.be/FJ0RUZfMdv8?si=auHjmNgHMrpaNZvY |
| 22 | Online Mess / Tiffin Booking System Project | https://youtu.be/NTVmHFDowyl?si=yrvC1bE6fdJ0B7dQ |
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| Sr.No | Project Name | YouTube Link |
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Summary

Summary of your recent exam

Result: Pass
Marks: 27/40
Percentage: 67.50 %

Questions: 40
Correct Answers: 27
Attempted: 40

1. Which of the following is/are algorithm constructs?

Answers

1. Sequencing
2. Selection
3. Iteration
4. All of the above

2. Which of following steps is/are includes in problem solving?

3. Which of the following is not an application of stack data structure?

4. Which of the following statement is incorrect with respect to circular queue?

1. Which of the following is/are algorithm constructs?

2. Which of following steps is/are includes in problem solving?

Answers

1. Developing an approach to understand the problem
2. Designing step-by-step pseudocode solution
3. Analyzing the efficiency of a solution
4. Transforming pseudocode into a correct code
5. All of the above

3. Which of the following is not an application of stack data structure?

4. Which of the following statement is incorrect with respect to circular queue?

5. Which of the following algorithms uses priority queue?

6. Consider the array A[] = {10, 15, 1, 2, 6, 12, 5, 7}. If we apply the Quick sort to sort the array considering left-most element as a pivot element. What will be the array elements after 1st pass?

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Quiz

Answers

1. Which of the following is/are algorithm constructs?

2. Which of following steps is/are includes in problem solving?

3. Which of the following is not an application of stack data structure?

4. Implementation of function recursion

5. The undo-mechanism in an editor

6. Transferring data asynchronously between two processes.

7. Expression conversion and expression evaluation.

4. Which of the following statement is incorrect with respect to circular queue?

5. Which of the following algorithms uses priority queue?

6. Consider the array A[] = {10, 15, 1, 2, 6, 12, 5, 7} If we apply the Quick sort to sort the array considering left-most element as a pivot element. What will be the array elements after 1st pass?

Answers

1. Which of the following is/are algorithm constructs?

2. Which of following steps is/are includes in problem solving?

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3. Which of the following is not an application of stack data structure?

4. Which of the following statement is incorrect with respect to circular queue?

5. Which of the following algorithms uses priority queue?

Answers

- 1. CPU Scheduling
- 2. Dijkstra's shortest path algorithm
- 3. Traffic System
- 4. Both A and B
- 5. None of the above

6. Consider the array $A[] = \{10, 15, 1, 2, 6, 12, 5, 7\}$ If we apply the Quick sort to sort the array considering left-most element as a pivot element, what will be the array elements after 1st pass?

7. The _____ data structure is used to check whether an arithmetic expression has balanced parenthesis or not.

8. What is the time complexity of dequeue of a queue implemented using a singly linked-list?

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Consider the array $A[] = \{10, 15, 1, 2, 6, 12, 5, 7\}$ If we apply the Quick sort to sort the array considering left-most element as a pivot element, what will be the array elements after 1st pass?

Answers

- 1. 5 7 1 2 6 10 12 15
- 2. 5 7 1 2 6 12 10 15
- 3. 5 15 1 2 6 10 12 7
- 4. None of the above

7. The _____ data structure is used to check whether an arithmetic expression has balanced parenthesis or not.

8. What is the time complexity of dequeue of a queue implemented using a singly linked-list?

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3. Which of the following algorithms uses priority queue?

Consider the array A[] = {10, 15, 1, 2, 6, 12, 5, 7} If we apply the Quick sort to sort the array considering left-most element as a pivot element, what will be the array elements after 1st pass?

4. Which of the following algorithms uses priority queue?

7. The _____ data structure is used to check whether an arithmetic expression has balanced parenthesis or not

Answers

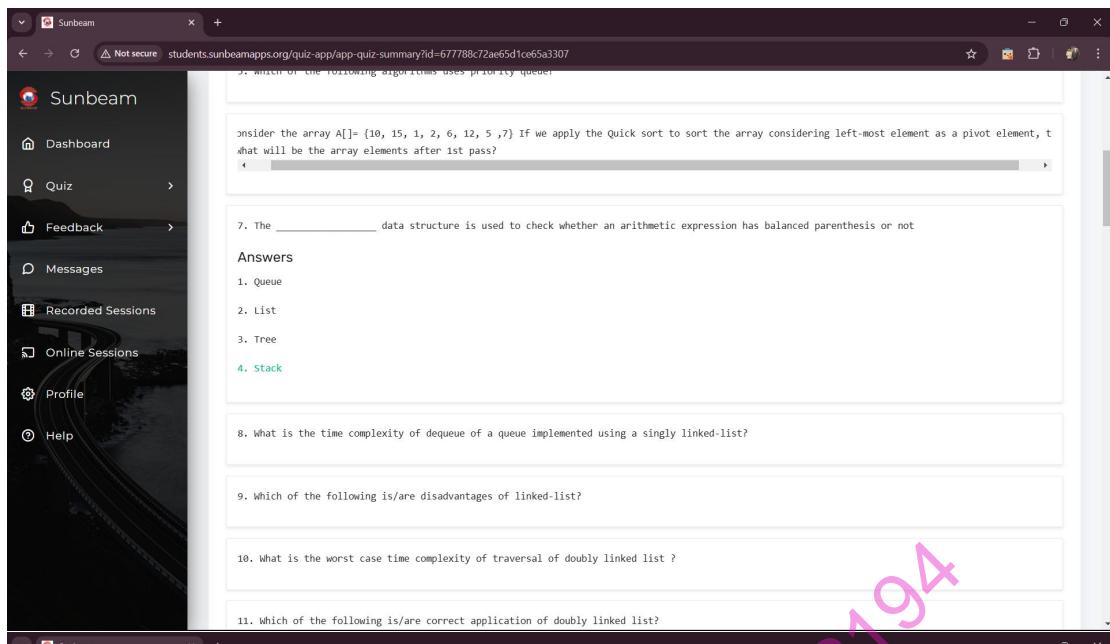
- 1. Queue
- 2. List
- 3. Tree
- 4. Stack

8. What is the time complexity of dequeue of a queue implemented using a singly linked-list?

9. Which of the following is/are disadvantages of linked-list?

10. What is the worst case time complexity of traversal of doubly linked list ?

11. Which of the following is/are correct application of doubly linked list?



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3. Which of the following algorithms uses priority queue?

Consider the array A[] = {10, 15, 1, 2, 6, 12, 5, 7} If we apply the Quick sort to sort the array considering left-most element as a pivot element, what will be the array elements after 1st pass?

4. Which of the following algorithms uses priority queue?

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Answers

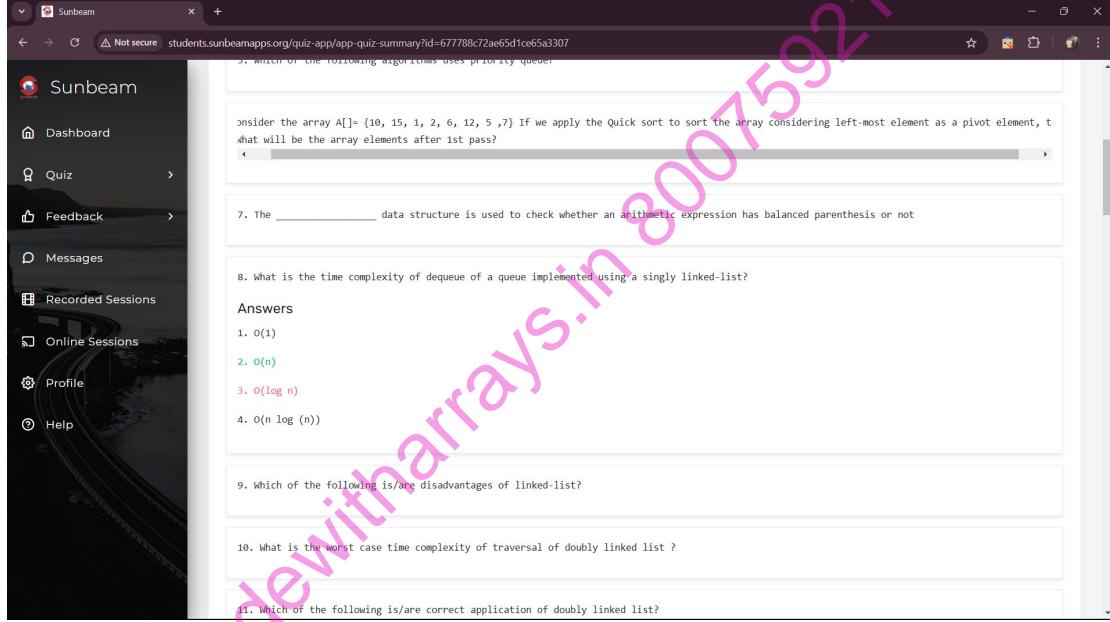
- 1. O(1)
- 2. O(n)
- 3. O(log n)
- 4. O(n log (n))

8. What is the time complexity of dequeue of a queue implemented using a singly linked-list?

9. Which of the following is/are disadvantages of linked-list?

10. What is the worst case time complexity of traversal of doubly linked list ?

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7. The _____ data structure is used to check whether an arithmetic expression has balanced parenthesis or not

8. What is the time complexity of dequeue of a queue implemented using a singly linked-list?

9. Which of the following is/are disadvantages of linked-list?

Answers

1. Size of the list doesn't need to be mentioned at the beginning of the program.
2. As the linked list doesn't have a size limit, we can go on adding new nodes (elements) and increasing the size of the list to any extent.
3. In order to reach any node, we need to traverse the whole list from beginning to the desired node.
4. All of the above

10. What is the worst case time complexity of traversal of doubly linked list ?

11. Which of the following is/are correct application of doubly linked list?

12. In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is

7. The _____ data structure is used to check whether an arithmetic expression has balanced parenthesis or not

8. What is the time complexity of dequeue of a queue implemented using a singly linked-list?

9. Which of the following is/are disadvantages of linked-list?

10. What is the worst case time complexity of traversal of doubly linked list ?

Answers

1. $O(1)$
2. $O(n)$
3. $O(\log n)$
4. $O(n \log (n))$

11. Which of the following is/are correct application of doubly linked list?

12. In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is

13. The following C Function takes a singly-linked list of integers as a parameter and rearranges the elements of the lists. The function is called

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9. Which of the following is/are disadvantages of linked-list?

10. What is the worst case time complexity of traversal of doubly linked list ?

11. Which of the following is/are correct application of doubly linked list?

Answers

1. It is used in the navigation systems where front and back navigation is required.
2. It is used by the browser to implement backward and forward navigation of visited web pages that is a back and forward button.
3. Doubly Linked List is also used in constructing MRU/LRU (Most/least recently used) cache.
4. All of the above
5. Both A and B

12. In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is

13. The following C Function takes a singly-linked list of integers as a parameter and rearranges the elements of the lists. The function is called

```
public class LinearList {  
    static class Node {  
        private int data;  
        private Node next;  
        private Node prev;  
    }  
}
```

9. Which of the following is/are disadvantages of linked-list?

10. What is the worst case time complexity of traversal of doubly linked list ?

11. Which of the following is/are correct application of doubly linked list?

12. In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is

Answers

1. $\log(n)$
2. n
3. $n/2$
4. None of the above

13. The following C Function takes a singly-linked list of integers as a parameter and rearranges the elements of the lists. The function is called

```
public class LinearList {  
    static class Node {  
        private int data;  
        private Node next;  
        private Node prev;  
        public Node() {  
            data = 0;  
        }  
    }  
}
```

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13. The following C Function takes a singly-linked list of integers as a parameter and rearranges the elements of the lists. The function is called

```
public class LinearList {  
    static class Node {  
        private int data;  
        private Node next;  
        private Node prev;  
        public Node() {  
            data = 0;  
            next = null;  
        }  
        public Node(int val) {  
            data = val;  
            next = null;  
        }  
    }  
  
    private Node head;  
    public LinearList() {  
        head = null;  
    }  
    public void rearrange()  
    {  
        Node p=null,q=null;  
        int temp;  
        if (this.head!=null || list.next!=null) return;  
        p=this.head; q=this.head.next;  
        while(q!=null)  
        {  
            temp=p->value; p->value=q->value;  
            q.data=temp;p=q.next;  
            q=p?p.next:null;  
        }  
    }  
}
```

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Answers

1. 1, 2, 3, 4, 5, 6, 7
2. 2, 1, 4, 3, 6, 5, 7
3. 1, 3, 2, 5, 4, 7, 6
4. 2, 3, 4, 5, 6, 7, 1

14. What will be the output of the following program?

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- Help

14. What will be the output of the following program?

```
public class Program
{
    public static void main(String args[])
    {
        int min_range = 20;
        System.out.print(recursiveSum(min_range));
    }
    private static int recursiveSum(int range)
    {
        int sum = 0;
        if (range == 1)
            return 1;
        sum = range + recursiveSum(range - 1);
        return sum;
    }
}
```

Answers

- 155
- 321
- 190
- 210
- Runtime Error

15. What's happen if base condition is not defined in recursion?

```
sum = range + recursiveSum(range - 1);
return sum;
}
```

Answers

- Stack Overflow
- Stack Underflow
- Compile Time error
- None of the above

16. In _____ every non-leaf node must have non-empty left subtree and non-empty right sub-tree and all leaf nodes must be exists at same level

17. Which of the following statement is/are true about complete binary tree?

18. The distance from the farthest descendant of root node indicates _____

19. The Inorder and preorder traversal of a binary tree are -
b e a f c g and a b d e c f g, respectively

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```
        sum = range + recursiveSum(range - 1);
        return sum;
    }
}
```

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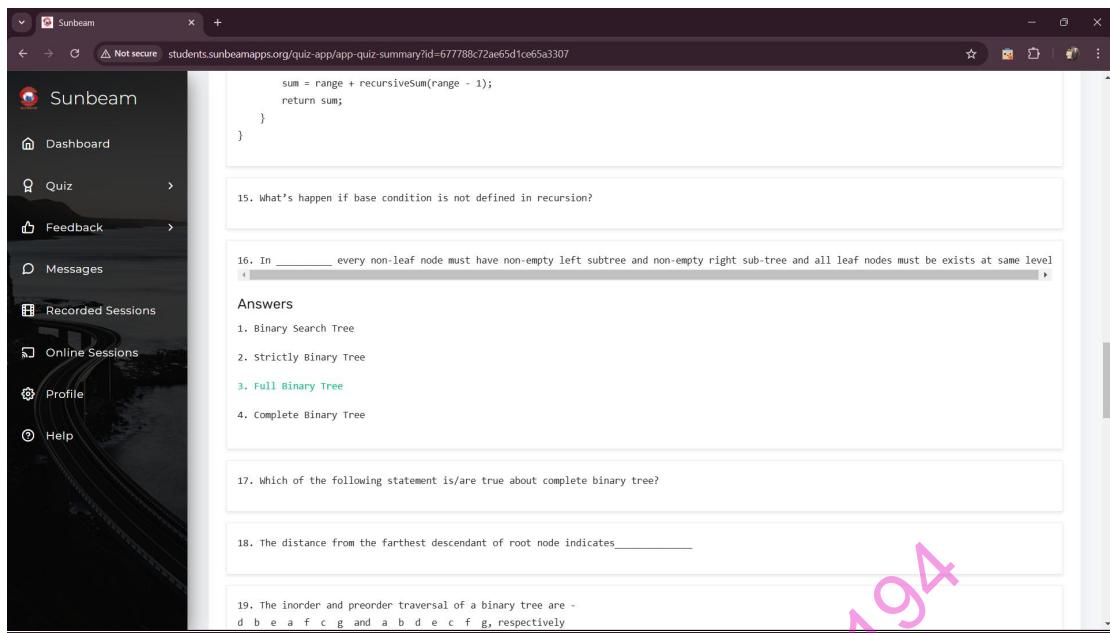
Answers

1. Binary Search Tree
2. Strictly Binary Tree
3. **Full Binary Tree**
4. Complete Binary Tree

17. Which of the following statement is/are true about complete binary tree?

18. The distance from the farthest descendant of root node indicates_____

19. The inorder and preorder traversal of a binary tree are -
d b e a f c g and a b d e c f g, respectively



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        sum = range + recursiveSum(range - 1);
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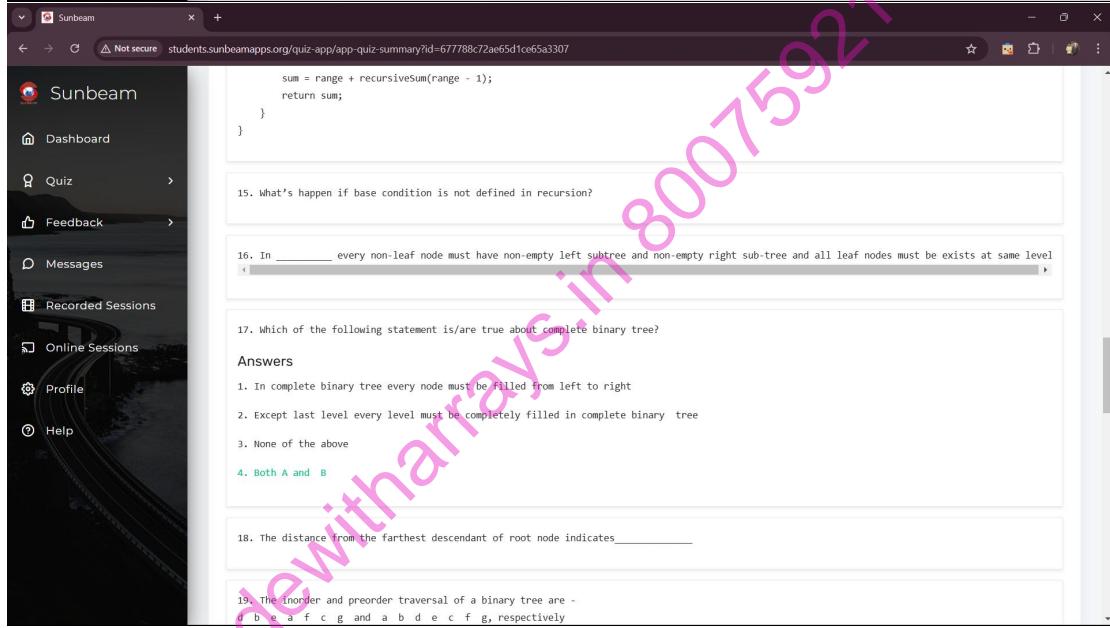
Answers

1. In complete binary tree every node must be filled from left to right
2. Except last level every level must be completely filled in complete binary tree
3. None of the above
4. Both A and B

17. Which of the following statement is/are true about complete binary tree?

18. The distance from the farthest descendant of root node indicates_____

19. The inorder and preorder traversal of a binary tree are -
d b e a f c g and a b d e c f g, respectively



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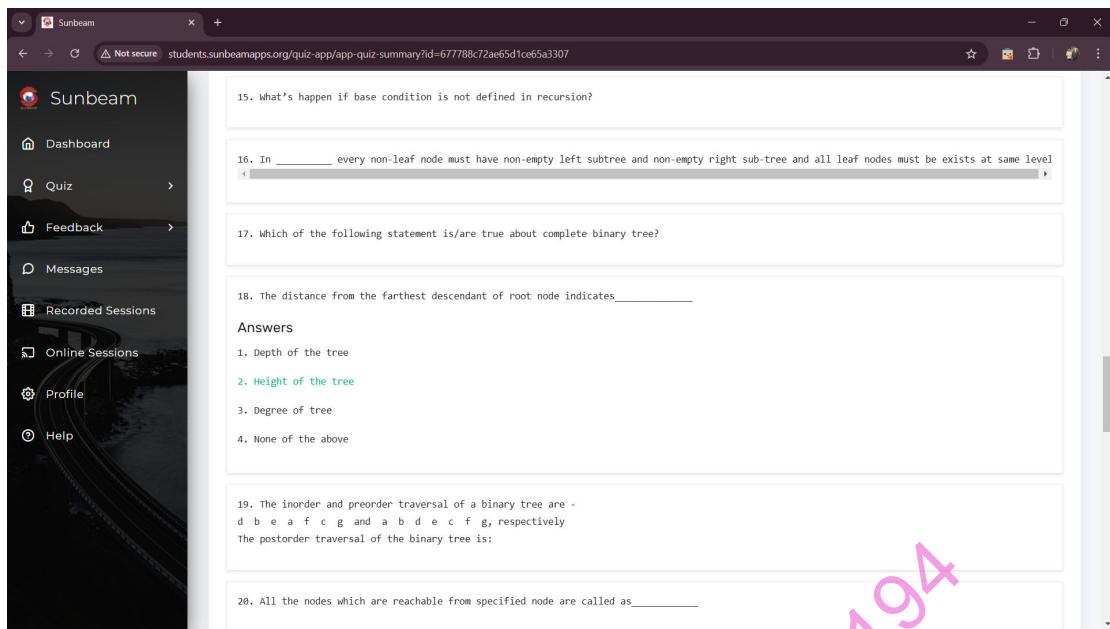
18. The distance from the farthest descendant of root node indicates _____

Answers

1. Depth of the tree
2. Height of the tree
3. Degree of tree
4. None of the above

19. The inorder and preorder traversal of a binary tree are -
d b e a f c g and a b d e c f g, respectively
The postorder traversal of the binary tree is:

20. All the nodes which are reachable from specified node are called as _____



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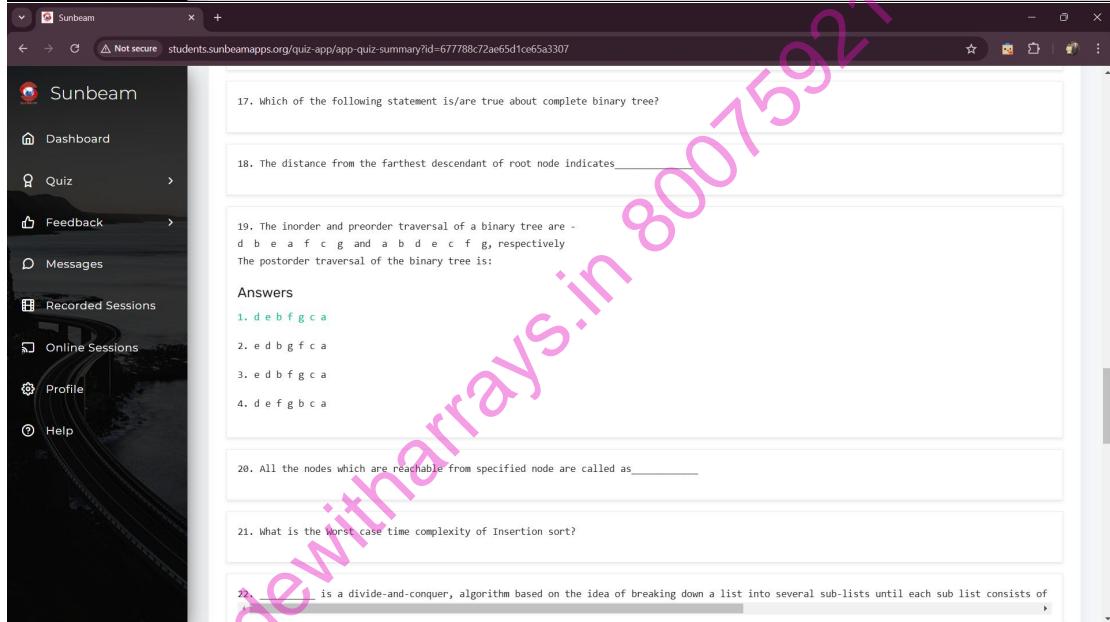
Answers

1. d e b f g c a
2. e d b g f c a
3. e d b f g c a
4. d e f g b c a

20. All the nodes which are reachable from specified node are called as _____

21. What is the worst case time complexity of Insertion sort?

22. _____ is a divide-and-conquer algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of



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18. The distance from the farthest descendant of root node indicates _____

19. The inorder and preorder traversal of a binary tree are -
d b e a f c g and a b d e c f g, respectively
The postorder traversal of the binary tree is:

20. All the nodes which are reachable from specified node are called as _____

Answers

- 1. Descendant
- 2. Ancestor
- 3. Leaf Node
- 4. None of the above

21. What is the Worst case time complexity of Insertion sort?

22. _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of

23. What is the best case time complexity of Quick sort?

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d b e a f c g and a b d e c f g, respectively
The postorder traversal of the binary tree is:

20. All the nodes which are reachable from specified node are called as _____

21. What is the Worst case time complexity of Insertion sort?

Answers

- 1. $O(n)$
- 2. $O(n^2)$
- 3. $O(n \cdot n!)$
- 4. $O(n \log(n))$

22. _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of

23. What is the best case time complexity of Quick sort?

24. Which of the following statement is/are correct about Linear search?

• _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of a single element and merging those sub lists in a manner that results into a sorted list

aadad _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of a single element and merging those sub lists in a manner that results into a sorted list

The screenshot shows a web browser window for the Sunbeam platform. The URL is <https://students.sunbeamapps.org/quiz-app/app-quiz-summary?id=677788c72ae65d1ce65a3307>. The page displays a quiz summary with the following content:

d b e a f c g and a b d e c f g, respectively
The postorder traversal of the binary tree is:

20. All the nodes which are reachable from specified node are called as _____

21. What is the Worst case time complexity of Insertion sort?

22. _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of _____

Answers

- 1. Bubble sort
- 2. Quick sort
- 3. Merge sort
- 4. None of the above

23. What is the best case time complexity of Quick sort?

24. Which of the following statement is/are correct about Linear search?

22. _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of a single element and merging those sub lists in a manner that results into a sorted list.

The screenshot shows a web browser window for the Sunbeam platform. The URL is <https://students.sunbeamapps.org/quiz-app/app-quiz-summary?id=677788c72ae65d1ce65a3307>. The page displays a quiz summary with the following content:

22. _____ is a divide-and-conquer, algorithm based on the idea of breaking down a list into several sub-lists until each sub list consists of _____

23. What is the best case time complexity of Quick sort?

Answers

- 1. $O(\log n)$
- 2. $O(n \log (n))$
- 3. $O(n)$
- 4. $O(n^2)$

24. Which of the following statement is/are correct about Linear search?

25. Given a hash table T with 20 slots that stores 200 elements, the load factor α for T is _____

26. Which of the following statement is/are true about Hashing?

27. Consider a hash table of size 7, with starting index zero, and a hash function $(3x + 4) \bmod 7$. Assuming the hash table is initially empty, which

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23. What is the best case time complexity of Quick sort?

24. Which of the following statement is/are correct about Linear search?

Answers

- 1. Linear search requires the input data to be sorted.
- 2. In case of Linear search worst case running time complexity is $O(n)$
- 3. Linear search requires sequential access to the data
- 4. Both A and B
- 5. Both A and C

25. Given a hash table T with 20 slots that stores 200 elements, the load factor α for T is

26. Which of the following statement is/are true about Hashing?

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25. Given a hash table T with 20 slots that stores 200 elements, the load factor α for T is

Answers

- 1. 10
- 2. 40
- 3. 0.1
- 4. 1.25

26. Which of the following statement is/are true about Hashing?

27. Consider a hash table of size 7, with starting index zero, and a hash function $(3x + 4) \bmod 7$. Assuming the hash table is initially empty, which

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25. Given a hash table T with 20 slots that stores 200 elements, the load factor α for T is

26. Which of the following statement is/are true about Hashing?

Answers

- If we want to search element in constant time and with less comparisons then we should use hashing.
- Hashing is one of the searching algorithm.
- Both A and B
- Only A

27. Consider a hash table of size 7, with starting index zero, and a hash function $(3x + 4) \bmod 7$. Assuming the hash table is initially empty, which

28. A degree of any vertex of graph is:

29. Which of the following is/are correct statement about complete graph?
I. A graph in which each vertex is adjacent to every other vertex, is called as Complete graph.
II. A simple graph with 'n' vertices is called a complete graph if the degree of each vertex is $n-1$

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26. Which of the following statement is/are true about Hashing?

27. Consider a hash table of size 7, with starting index zero, and a hash function $(3x + 4) \bmod 7$. Assuming the hash table is initially empty, which

Answers

- 8, _, _, _, _, _, 10
- 1, 8, 10, _, _, _
- 1, _, _, _, _, _
- 1, 10, 8, _, _, _

28. A degree of any vertex of graph is:

29. Which of the following is/are correct statement about complete graph?
I. A graph in which each vertex is adjacent to every other vertex, is called as complete graph.
II. A simple graph with 'n' vertices is called a complete graph if the degree of each vertex is $n-1$

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27. Consider a hash table of size 7, with starting index zero, and a hash function $(3x + 4) \bmod 7$. Assuming the hash table is initially empty, which of the following is the contents of the table when the sequence 1, 3, 8, 10 is inserted into the table using closed hashing? Note that '_' denotes an empty location in the table.

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24. Which of the following statement is/are correct about Linear search?

25. Given a hash table T with 20 slots that stores 200 elements, the load factor α for T is

26. Which of the following statement is/are true about Hashing?

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28. A degree of any vertex of graph is:

Answers

1. The number of edges incident with vertex
2. Total number of vertex in graph.
3. Number of vertices incident adjacent to that vertex
4. Number of edges in graph

29. Which of the following is/are correct statement about complete graph?

- I. A graph in which each vertex is adjacent to every other vertex, is called as Complete graph.
- II. A simple graph with 'n' vertices is called a complete graph if the degree of each vertex is $n-1$

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28. A degree of any vertex of graph is:

29. Which of the following is/are correct statement about complete graph?

- I. A graph in which each vertex is adjacent to every other vertex, is called as Complete graph.
- II. A simple graph with 'n' vertices is called a complete graph if the degree of each vertex is $n-1$

Answers

1. Only I is correct
2. Only II is correct
3. Both I and II are correct
4. Both I and II are incorrect

30. What is true about graph?

31. Which of the following is/are application of graph data structure?

32. How is time complexity measured?

33. Which of the following is used to decide efficiency of algorithm?

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29. Which of the following is/are correct statement about complete graph?

- A graph in which each vertex is adjacent to every other vertex, is called as Complete graph.
- A simple graph with 'n' vertices is called a complete graph if the degree of each vertex is $n-1$.

30. What is true about graph?

Answers

- Graph is linear data structure
- Node in graph also called as vertex
- Line connecting two nodes is called as edge
- All of the above
- Both B and C

31. Which of the following is/are application of graph data structure?

32. How is time complexity measured?

33. Which of the following is used to decide efficiency of algorithm?

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I. A graph in which each vertex is adjacent to every other vertex, is called as Complete graph.

II. A simple graph with 'n' vertices is called a complete graph if the degree of each vertex is $n-1$.

30. What is true about graph?

31. Which of the following is/are application of graph data structure?

Answers

- Social networking like facebook
- Circuit simulation application
- Location based services like google map,ola
- All of the above

32. How is time complexity measured?

33. Which of the following is used to decide efficiency of algorithm?

34. Which of the following standard algorithms is not Dynamic Programming based.

35. Which of the following is not a backtracking algorithm?

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11. A simple graph with n vertices is called a complete graph if the degree of each vertex is $n-1$.

30. What is true about graph?

31. Which of the following is/are application of graph data structure?

32. How is time complexity measured?

Answers

1. By counting the number of primitive operations performed by the algorithm on a given input size
2. By counting the number of statements in an algorithm.
3. By counting the size of data input to the algorithm
4. None of the above

33. Which of the following is used to decide efficiency of algorithm?

34. Which of the following standard algorithms is not Dynamic Programming based.

35. Which of the following is not a backtracking algorithm?

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31. Which of the following is/are application of graph data structure?

32. How is time complexity measured?

33. Which of the following is used to decide efficiency of algorithm?

Answers

1. Time Complexity
2. Space Complexity
3. Both A and B
4. None of the above

34. Which of the following standard algorithms is not Dynamic Programming based.

35. Which of the following is not a backtracking algorithm?

36. Let G be an undirected connected graph with distinct edge weight. Let e_{\max} be the edge with maximum weight and e_{\min} be the edge with minimum weight.

37. Which of the following is/are correct statement about Asymptotic analysis?

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32. How is time complexity measured?

33. Which of the following is used to decide efficiency of algorithm?

34. Which of the following standard algorithms is not Dynamic Programming based.

Answers

- 1. Bellman-Ford Algorithm for single source shortest path
- 2. Floyd Warshall Algorithm for all pairs shortest paths
- 3. 0-1 Knapsack problem
- 4. Prim's Minimum Spanning Tree

35. Which of the following is not a backtracking algorithm?

36. Let G be an undirected connected graph with distinct edge weight. Let emax be the edge with maximum weight and emin be the edge with minimum weight

37. Which of the following is/are correct statement about Asymptotic analysis?

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33. Which of the following is used to decide efficiency of algorithm?

34. Which of the following standard algorithms is not Dynamic Programming based.

35. Which of the following is not a backtracking algorithm?

Answers

- 1. Knight tour problem
- 2. N queen problem
- 3. Tower of Hanoi
- 4. M coloring problem

36. Let G be an undirected connected graph with distinct edge weight. Let emax be the edge with maximum weight and emin be the edge with minimum weight

37. Which of the following is/are correct statement about Asymptotic analysis?

38. Which approach is based on computing the distance between each pair of distinct points and finding a pair with the smallest distance?

39. What is the other name of Dijkstra algorithm?

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35. Which of the following is not a backtracking algorithm?

36. Let G be an undirected connected graph with distinct edge weight. Let e_{\max} be the edge with maximum weight and e_{\min} the edge with minimum weight.

Answers

1. Every minimum spanning tree of G must contain e_{\min}
2. If e_{\max} is in a minimum spanning tree, then its removal must disconnect G
3. No minimum spanning tree contains e_{\max}
4. G has a unique minimum spanning tree

37. Which of the following is/are correct statement about Asymptotic analysis?

38. Which approach is based on computing the distance between each pair of distinct points and finding a pair with the smallest distance?

39. What is the other name of Dijkstra algorithm?

40. What happens when the backtracking algorithm reaches a complete solution?

36. Let G be an undirected connected graph with distinct edge weight. Let e_{\max} be the edge with maximum weight and e_{\min} the edge with minimum weight. Which of the following statements is false?

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34. Which of the following standard algorithms is not Dynamic Programming based.

35. Which of the following is not a backtracking algorithm?

36. Let G be an undirected connected graph with distinct edge weight. Let e_{\max} be the edge with maximum weight and e_{\min} the edge with minimum weight. Which of the following statements is false?

Answers

1. Theta Notation is used for analyzing the average-case complexity of an algorithm.
2. Omega notation represents the upper bound of the running time of an algorithm
3. Big-O Notation represents the upper bound of the running time of an algorithm
4. All of the above
5. Both A and C

37. Which of the following is/are correct statement about Asymptotic analysis?

38. Which approach is based on computing the distance between each pair of distinct points and finding a pair with the smallest distance?

39. What is the other name of Dijkstra algorithm?

The image displays two side-by-side screenshots of a web-based quiz application titled "Sunbeam".

Screenshot 1 (Top):

- Header: "Sunbeam" and "Not secure" (students.sunbeamapps.org/quiz-app/app-quiz-summary?id=67778c72ae65d1ce65a3307)
- Left sidebar:
 - Dashboard
 - Quiz
 - Feedback
 - Messages
 - Recorded Sessions
 - Online Sessions
 - Profile
 - Help
- Content area:
 - 39. Which of the following is not a backtracking algorithm?
n distinct edge weight. Let e_{\max} be the edge with maximum weight and e_{\min} the edge with minimum weight. Which of the following statements is false?
 - 37. Which of the following is/are correct statement about Asymptotic analysis?
 - 38. Which approach is based on computing the distance between each pair of distinct points and finding a pair with the smallest distance?
 - Answers**
 - 1. Brute force
 - 2. Exhaustive search
 - 3. Divide and conquer
 - 4. Branch and bound
 - 39. What is the other name of Dijkstra algorithm?
 - 40. What happens when the backtracking algorithm reaches a complete solution?
- Footer: "© 2025 Sunbeam"

Screenshot 2 (Bottom):

- Header: "Sunbeam" and "Not secure" (students.sunbeamapps.org/quiz-app/app-quiz-summary?id=67778c72ae65d1ce65a3307)
- Left sidebar: Same as Screenshot 1.
- Content area:
 - 39. Which of the following is not a backtracking algorithm?
n distinct edge weight. Let e_{\max} be the edge with maximum weight and e_{\min} the edge with minimum weight. Which of the following statements is false?
 - 37. Which of the following is/are correct statement about Asymptotic analysis?
 - 38. Which approach is based on computing the distance between each pair of distinct points and finding a pair with the smallest distance?
 - Answers**
 - 1. single-source shortest path problem
 - 2. multiple-source shortest path problem
 - 3. multiple-destination shortest path problem
 - 4. single-destination shortest path problem
 - 40. What happens when the backtracking algorithm reaches a complete solution?
- Footer: "© 2025 Sunbeam"

A large, diagonal watermark reading "Codewitharrays.in 8007592194" is overlaid across both screenshots.

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35. Which of the following is not a backtracking algorithm?

n distinct edge weight. Let emax be the edge with maximum weight and emin the edge with minimum weight. Which of the following statements is false?

37. Which of the following is/are correct statement about Asymptotic analysis?

38. Which approach is based on computing the distance between each pair of distinct points and finding a pair with the smallest distance?

39. What is the other name of Dijkstra algorithm?

40. What happens when the backtracking algorithm reaches a complete solution?

Answers

1. It backtracks to the root
2. It continues searching for other possible solutions
3. It traverses from a different route
4. Recursively traverses through the same route

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