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Summary

Summary of your recent exam

Result: **Pass** Questions: **39**
Marks: **22/39** Correct Answers: **22**
Percentage: **56.41%** Attempted: **39**

1. The Floyd-Warshall algorithm for all-pair shortest paths computation is based on _____

Answers

1. Greedy paradigm.
2. Divide-and-Conquer paradigm.
3. Dynamic Programming paradigm.
4. None of above

2. In the delete operation of BST, we need inorder successor (or predecessor) of a node when the node to be deleted has both left and r

3. Which of the following sorting algorithm can be used to sort a linked list with minimum time complexity?

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1. The Floyd-Warshall algorithm for all-pair shortest paths computation is based on _____

2. In the delete operation of BST, we need inorder successor (or predecessor) of a node when the node to be deleted has both left and right child as non-empty. Which of the following is true about inorder successor needed in c

Answers

1. Inorder Successor is always a leaf node
2. Inorder successor is always either a leaf node or a node with empty left child
3. Inorder successor may be an ancestor of the node
4. Inorder successor is always either a leaf node or a node with empty right child

3. Which of the following sorting algorithm can be used to sort a linked list with minimum time complexity?

4. The following elements are added into BST in the given order:
10, 1, 3, 5, 15, 12, 16.
What is the height of the BST?

5. Which of the following sorting algorithm is not in place on an array data structure?



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1. The Floyd-Warshall algorithm for all-pair shortest paths computation is based on _____

2. In the delete operation of BST, we need inorder successor (or predecessor) of a node when the node to be deleted has both left and right children.

3. Which of the following sorting algorithm can be used to sort a linked list with minimum time complexity?

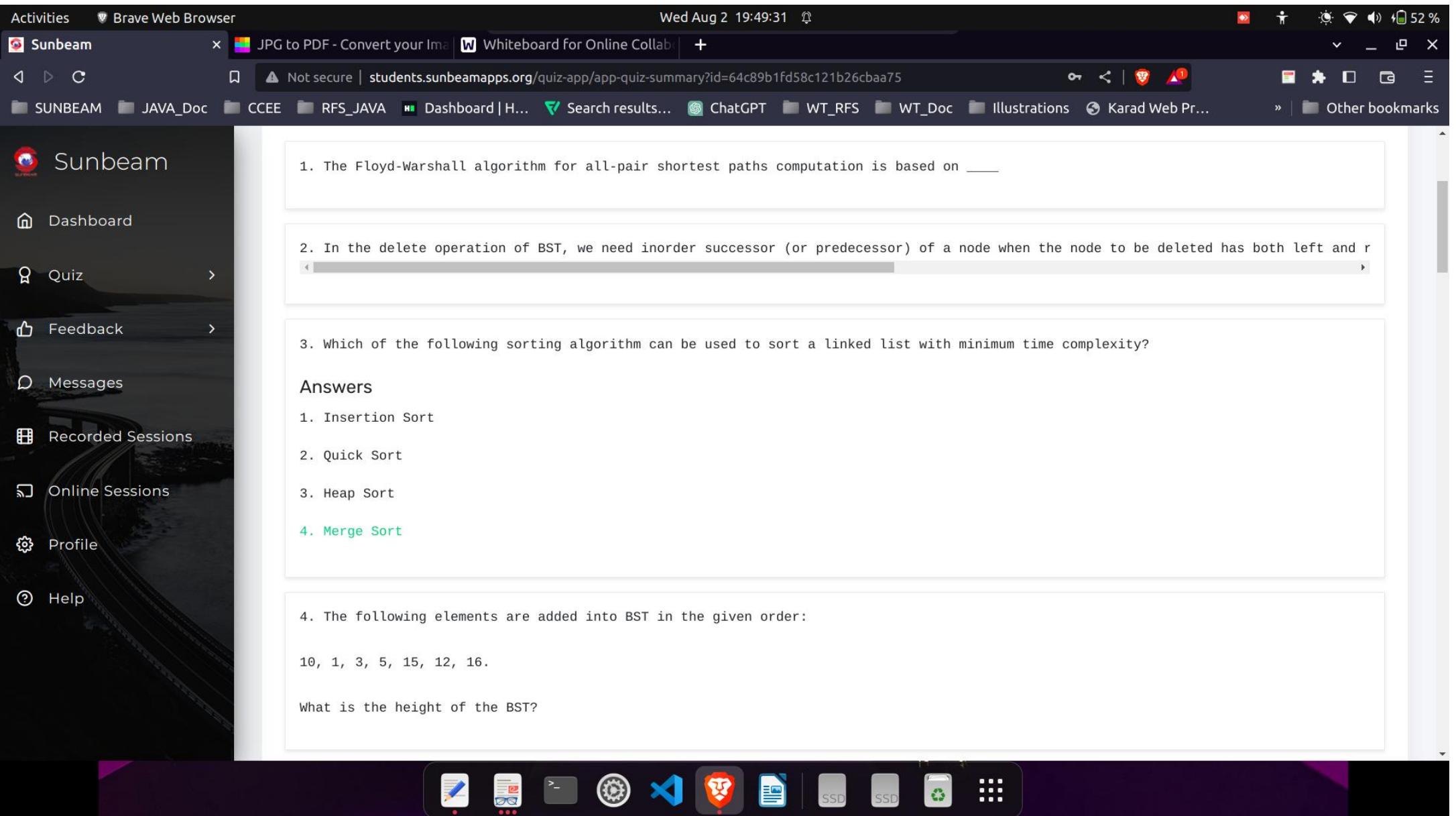
Answers

1. Insertion Sort
2. Quick Sort
3. Heap Sort
4. Merge Sort

4. The following elements are added into BST in the given order:

10, 1, 3, 5, 15, 12, 16.

What is the height of the BST?



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10, 1, 3, 5, 15, 12, 16.
What is the height of the BST?

Answers

1. 2

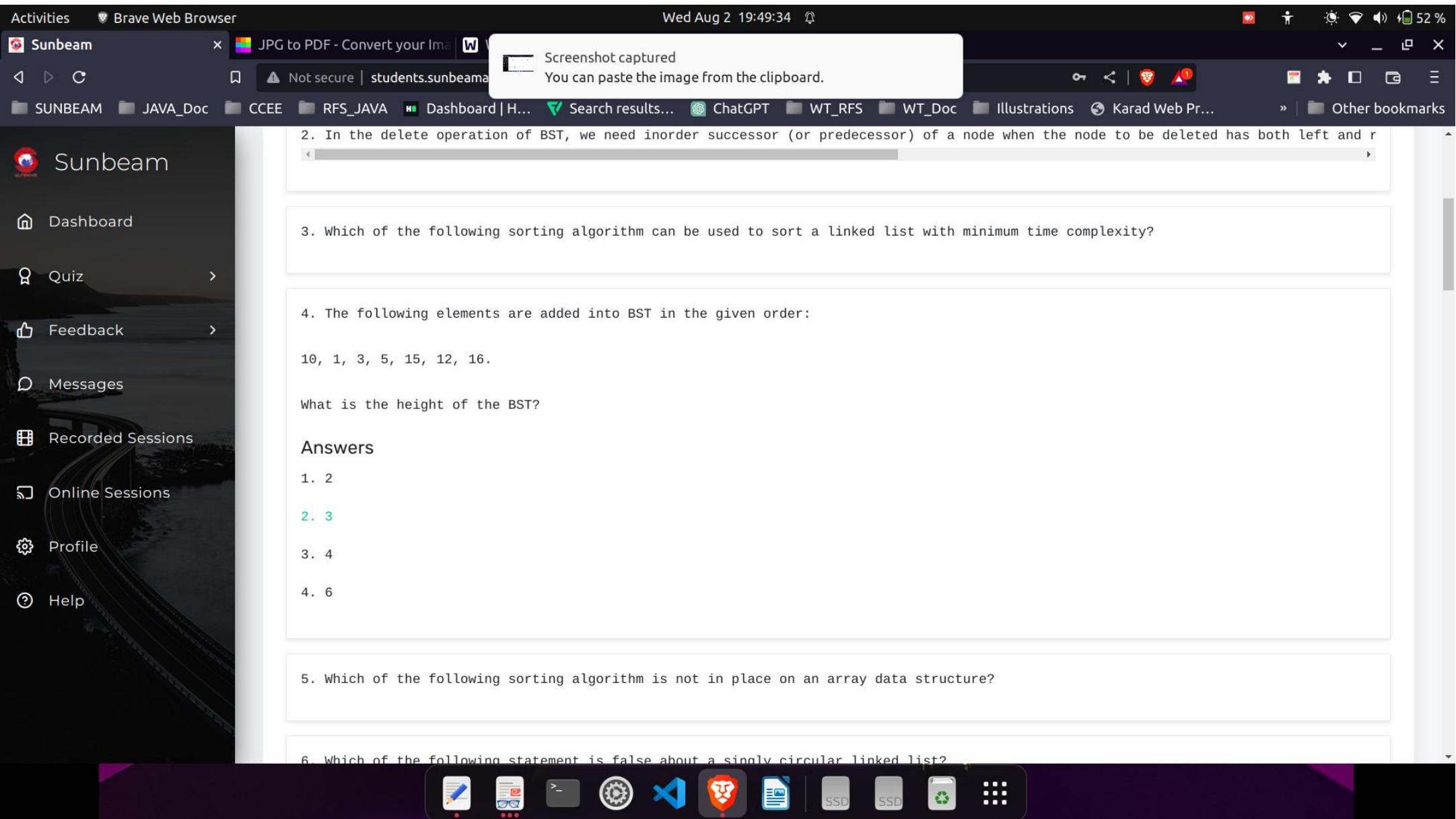
2. 3

3. 4

4. 6

5. Which of the following sorting algorithm is not in place on an array data structure?

6. Which of the following statement is false about a singly circular linked list?



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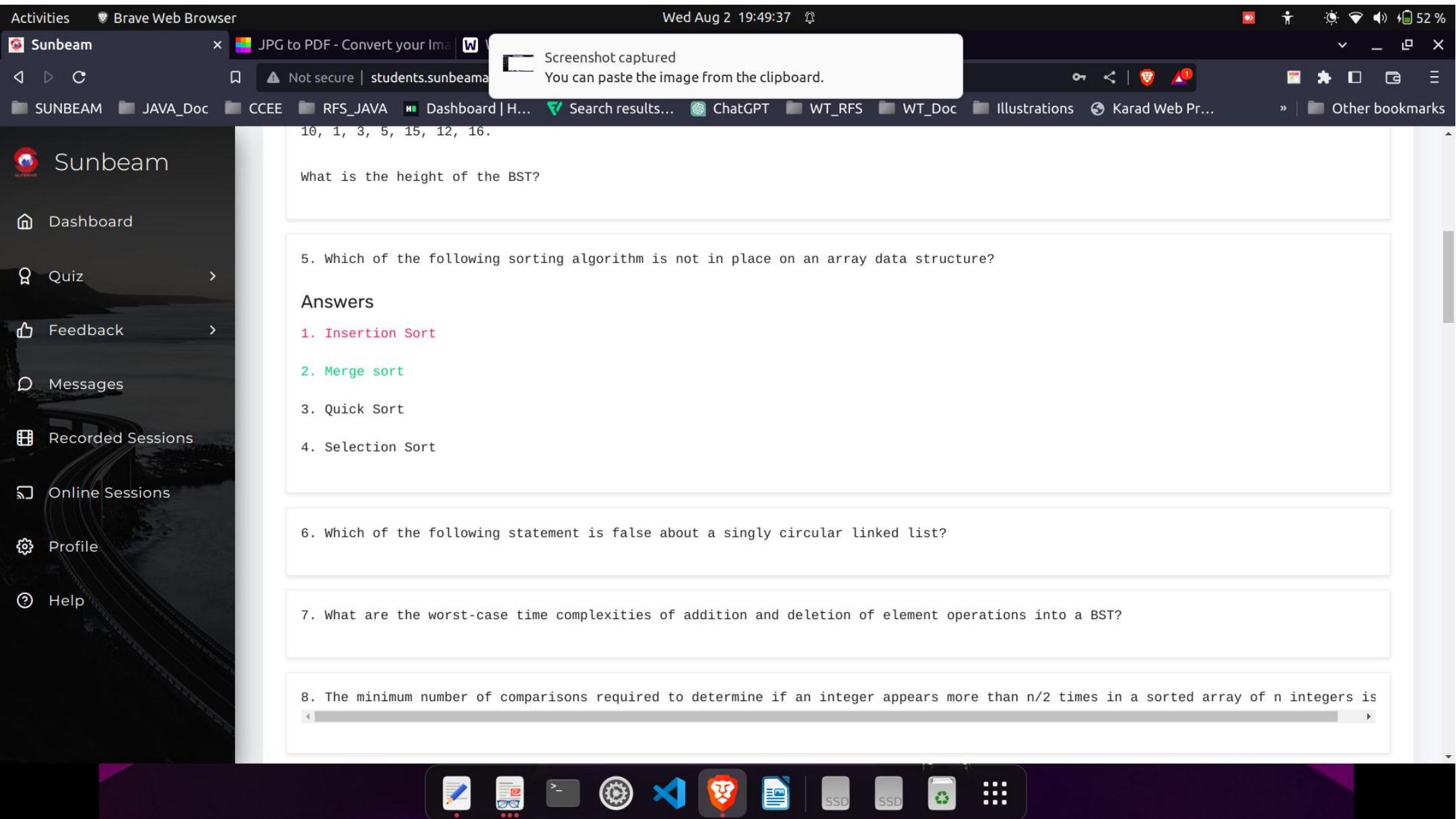
Answers

1. Insertion Sort
2. Merge sort
3. Quick Sort
4. Selection Sort

6. Which of the following statement is false about a singly circular linked list?

7. What are the worst-case time complexities of addition and deletion of element operations into a BST?

8. The minimum number of comparisons required to determine if an integer appears more than $n/2$ times in a sorted array of n integers is



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10, 1, 3, 5, 15, 12, 16.

What is the height of the BST?

5. Which of the following sorting algorithm is not in place on an array data structure?

6. Which of the following statement is false about a singly circular linked list?

Answers

1. traversal can be start from only first node and can be traversed only in a forward direction
2. previous node of any node cannot be accessed
3. addition & deletion operations can be performe in $O(1)$ time
4. any node can be revisited

7. What are the worst-case time complexities of addition and deletion of element operations into a BST?

8. The minimum number of comparisons required to determine if an integer appears more than $n/2$ times in a sorted array of n integers is

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5. Which of the following sorting algorithm is not in place on an array data structure?

6. Which of the following statement is false about a singly circular linked list?

7. What are the worst-case time complexities of addition and deletion of element operations into a BST?

Answers

1. $O(\log n)$

2. $O(n)$

3. $O(n)$ to add and $O(\log n)$ to delete

4. $O(\log n)$ to add and $O(n)$ to delete

8. The minimum number of comparisons required to determine if an integer appears more than $n/2$ times in a sorted array of n integers is

9. What is the queue full condition in the dynamic queue?

10. Which of the following sorting algorithm is adaptive in nature?



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7. What are the worst-case time complexities of addition and deletion of element operations into a BST?

8. The minimum number of comparisons required to determine if an integer appears more than $n/2$ times in a sorted array of n integers is_____

Answers

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

9. What is the queue full condition in the dynamic queue?

10. Which of the following sorting algorithm is adaptive in nature?

11. Which of the following statement is false about deque



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8. The minimum number of comparisons required to determine if an integer appears more than $n/2$ times in a sorted array of n integers is

9. What is the queue full condition in the dynamic queue?

Answers

1. `rear == size-1`
2. `front == (rear+1)%SIZE`
3. `front == rear+1`
4. `front == size`
5. `None of the above`

10. Which of the following sorting algorithm is adaptive in nature?

11. Which of the following statement is false about deque_____

12. Prefix notation is also called as _____



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8. The minimum number of comparisons required to determine if an integer appears more than $n/2$ times in a sorted array of n integers is _____

9. What is the queue full condition in the dynamic queue?

10. Which of the following sorting algorithm is adaptive in nature?

Answers

1. Quick Sort
2. Merge Sort
3. Bubble Sort
4. Insertion sort

11. Which of the following statement is false about deque_____

12. Prefix notation is also called as _____

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9. What is the queue full condition in the dynamic queue?

10. Which of the following sorting algorithm is adaptive in nature?

11. Which of the following statement is false about deque_____

Answers

- elements can be added as well deleted from both the ends
- deque can be implemented efficiently by using doubly linear linked list with tail pointer
- deque can be implemented efficiently by using doubly circular linked list
- None of the above

12. Prefix notation is also called as _____

13. Which of the following operation cannot be performed on the queue?

14. Which of the following point/s is/are true about Linked List data structure when it is compared with array_____



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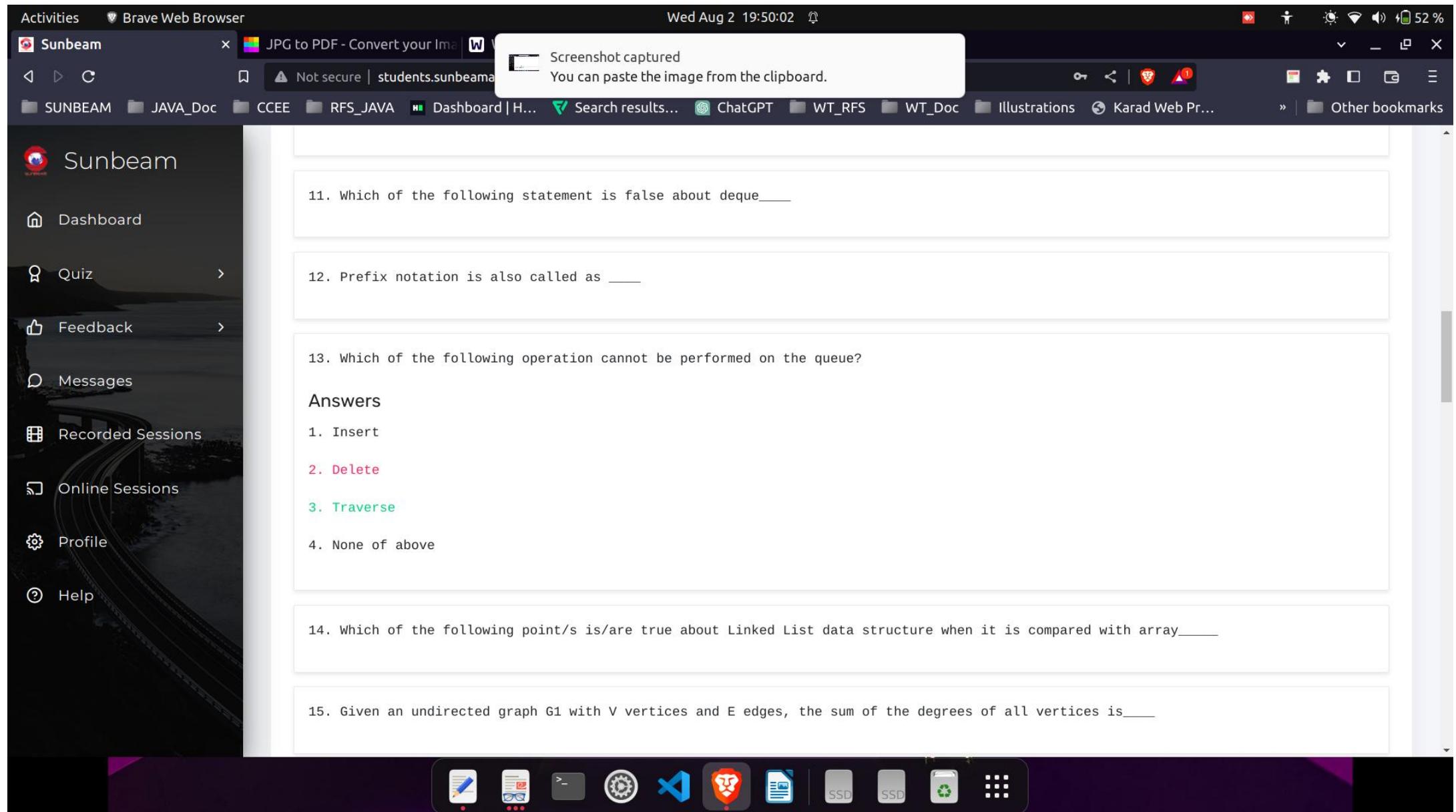
Answers

1. Reverse Polish Notation
2. Reverse Notation
3. Polish Reverse Notation
4. Polish Notation

13. Which of the following operation cannot be performed on the queue?

14. Which of the following point/s is/are true about Linked List data structure when it is compared with array_____





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12. Prefix notation is also called as _____

13. Which of the following operation cannot be performed on the queue?

14. Which of the following point/s is/are true about Linked List data structure when it is compared with array_____

Answers

1. Arrays have better cache locality that can make them better in terms of performance.
2. It is easy to insert and delete elements in linked list
3. Random access is not allowed in a typical implementation of linked lists
4. The size of array has to be pre-decided, linked lists can change their size during runtime.
5. All of the above

15. Given an undirected graph G1 with V vertices and E edges, the sum of the degrees of all vertices is_____



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15. Given an undirected graph G1 with V vertices and E edges, the sum of the degrees of all vertices is_____

Answers

1. E
2. $2E$
3. V
4. $2V$

16. Merge Sort works on two principles _____

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15. Given an undirected graph G1 with V vertices and E edges, the sum of the degrees of all vertices is_____

16. Merge Sort works on two principles _____

Answers

1. to sort smaller size array and to merge two already sorted array operations are not efficient.
2. to sort smaller size array and to merge two already sorted array operations are efficient.
3. to sort smaller size array is efficient and to merge two already sorted array is not efficient.
4. to sort smaller size array is not efficient and to merge two already sorted array is efficient.

17. What is the maximum height of any AVL-tree with 7 nodes? Assume that the height of a tree with a single node is 0.

18. Which of the following algorithm is used to find the shortest path in an undirected weighted graph contains negative weights.



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13. Which of the following operation cannot be performed on the queue?

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15. Given an undirected graph G1 with V vertices and E edges, the sum of the degrees of all vertices is_____

16. Merge Sort works on two principles _____

17. What is the maximum height of any AVL-tree with 7 nodes? Assume that the height of a tree with a single node is 0.

Answers

1. 2

2. 3

3. 4

4. 5

18. Which of the following algorithm is used to find the shortest path in an undirected weighted graph contains negative weights.



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15. Given an undirected graph G1 with V vertices and E edges, the sum of the degrees of all vertices is _____

16. Merge Sort works on two principles _____

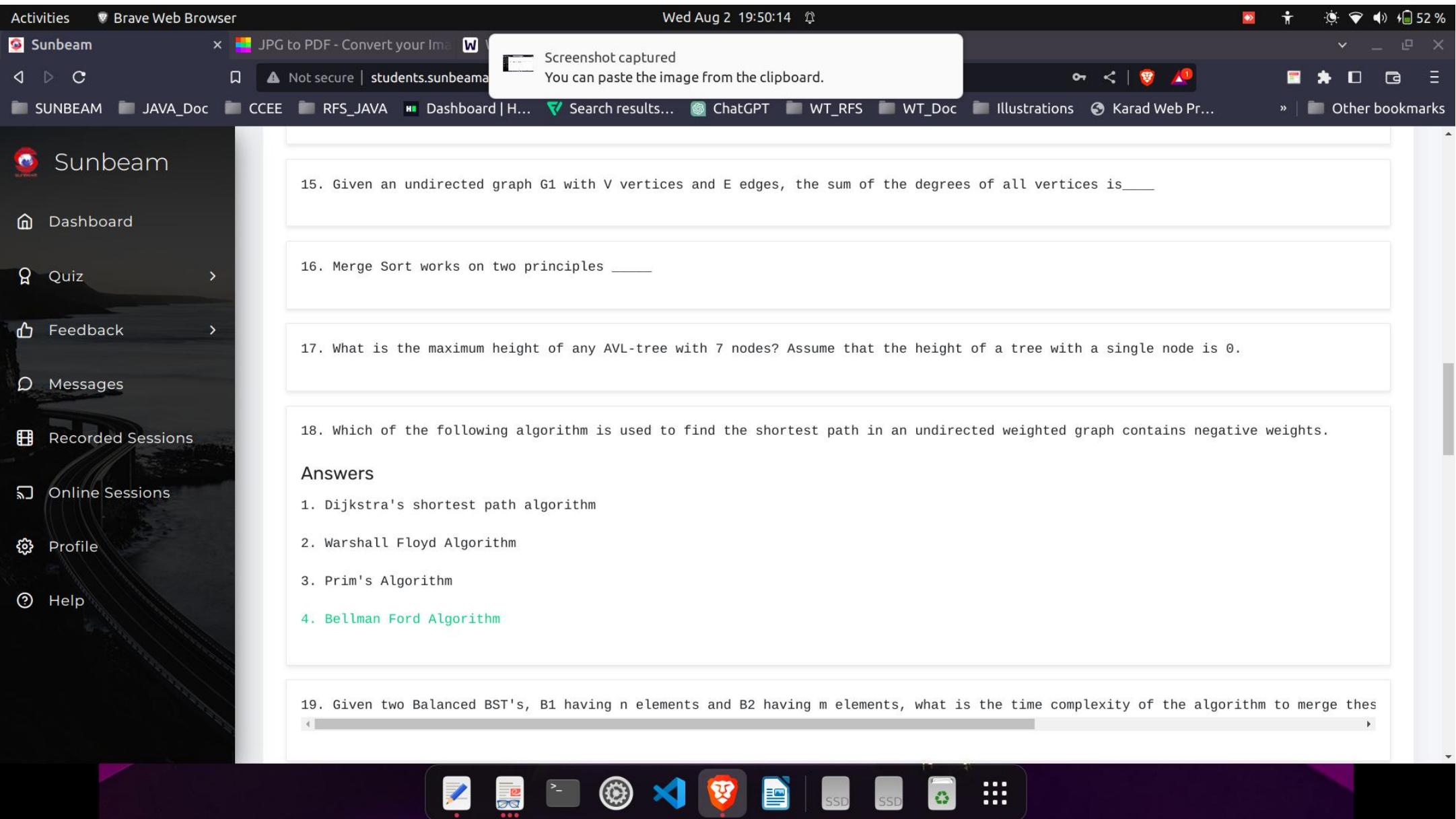
17. What is the maximum height of any AVL-tree with 7 nodes? Assume that the height of a tree with a single node is 0.

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Answers

1. Dijkstra's shortest path algorithm
2. Warshall Floyd Algorithm
3. Prim's Algorithm
4. Bellman Ford Algorithm

19. Given two Balanced BST's, B1 having n elements and B2 having m elements, what is the time complexity of the algorithm to merge them



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16. Merge Sort works on two principles _____

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18. Which of the following algorithm is used to find the shortest path in an undirected weighted graph contains negative weights.

19. Given two Balanced BST's, B1 having n elements and B2 having m elements, what is the time complexity of the algorithm to merge these trees to form another balanced BST containing m+n elements?

Answers

1. $O(m + n)$
2. $O(m \log n)$
3. $O(n \log m)$
4. $O(\log 0)$

20. The Standard Template Library (STL) consists of four main components. What are those components?

21. We use a dynamic programming approach when _____

22. Given a hash table T with 25 slots that stores 2000 elements, the load factor α for T is _____

23. Consider an undirected unweighted graph G1. Let a BFS traversal of G1 be done starting from a vertex s. Let $d(s, u)$ and $d(s, v)$ be the lengths of the shortest paths from s to u and v respectively, in G1. If u is visited before v in the traversal, then $d(s, u)$ _____ $d(s, v)$.

24. Which of the following statement is false about BST?

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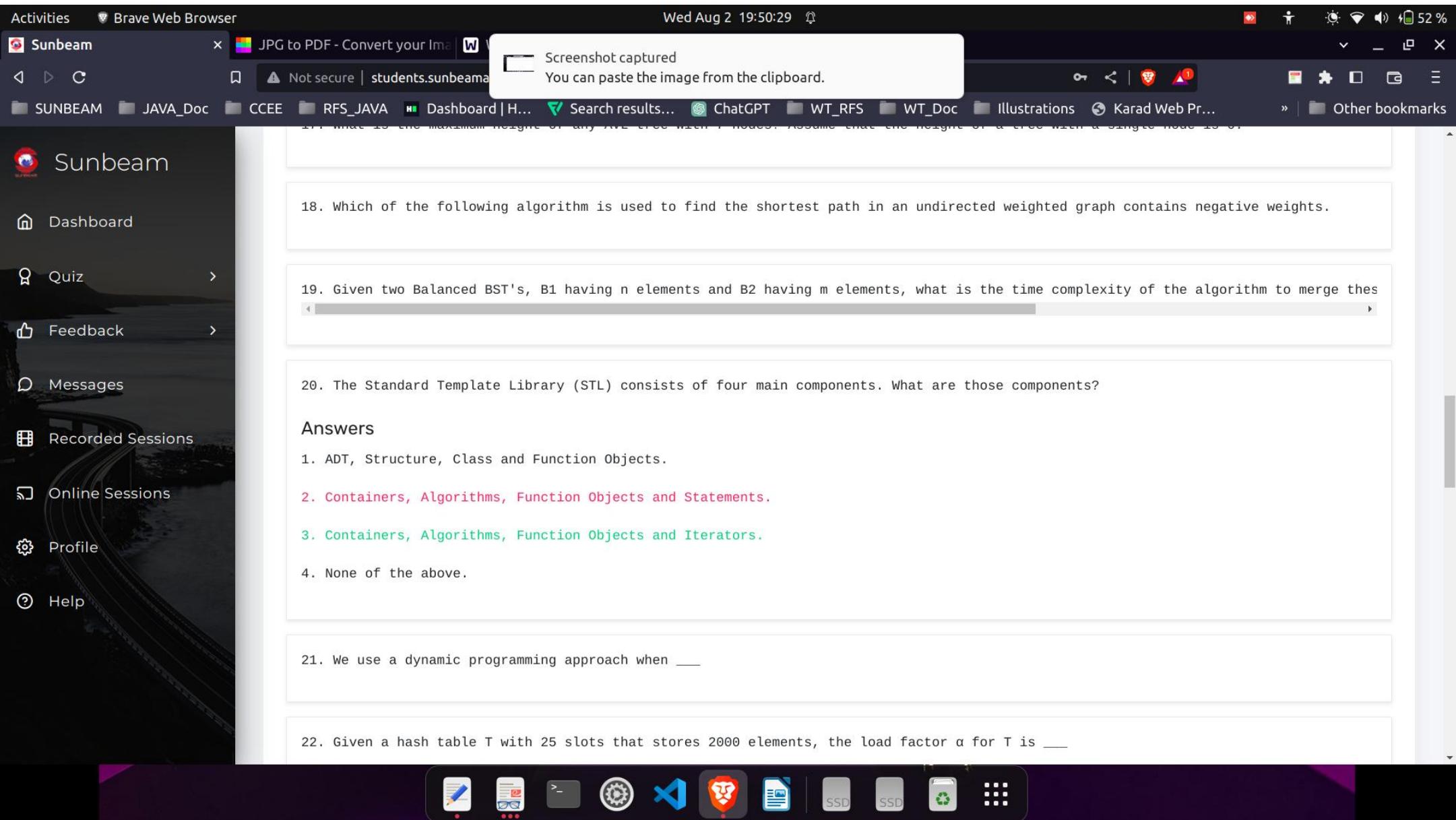
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Answers

1. ADT, Structure, Class and Function Objects.
2. Containers, Algorithms, Function Objects and Statements.
3. Containers, Algorithms, Function Objects and Iterators.
4. None of the above.

21. We use a dynamic programming approach when ____

22. Given a hash table T with 25 slots that stores 2000 elements, the load factor α for T is ____



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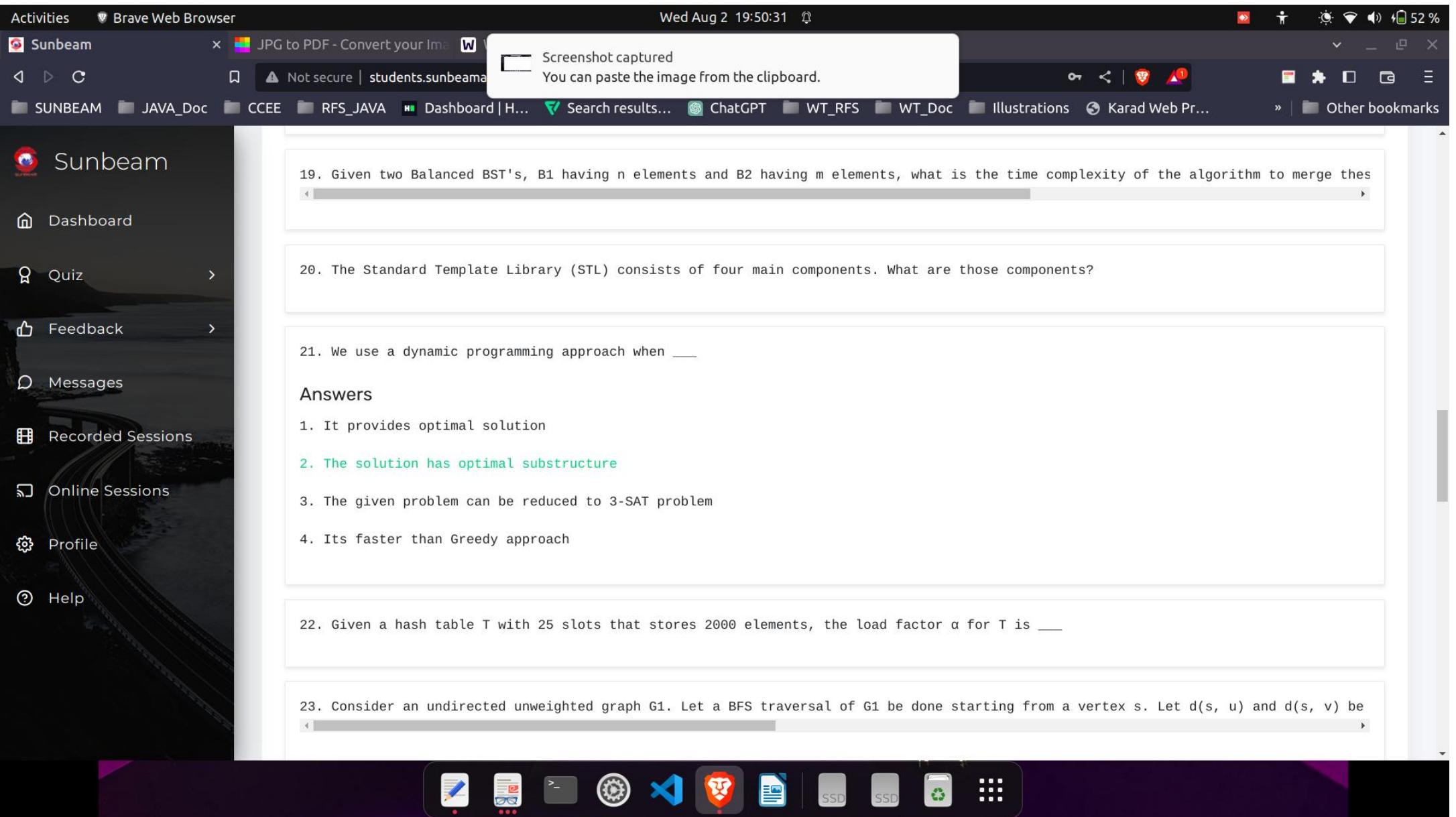
21. We use a dynamic programming approach when ___

Answers

1. It provides optimal solution
2. The solution has optimal substructure
3. The given problem can be reduced to 3-SAT problem
4. Its faster than Greedy approach

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Answers

1. 80

2. 0.0125

3. 8000

4. 1.25

23. Consider an undirected unweighted graph G_1 . Let a BFS traversal of G_1 be done starting from a vertex s . Let $d(s, u)$ and $d(s, v)$ be

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Answers

1. $d(s, u) < d(s, v)$
2. $d(s, u) > d(s, v)$
3. $d(s, u) \leq d(s, v)$
4. None of the above

24. Which of the following statement is false about BST?

25. Which of the following sorting algorithm takes minimum time when all elements are same.

26. Binary Search algorithm is also called as ____

27. Priority queue can be implemented efficiently by using ____

28. Which of the following statement is false about doubly circular linked list ____

29. Which of the following statement is not true in a graph?

30. To sort 1 GB of data with only 100 MB of main memory which of the following sorting algorithm will be the efficient one?

31. BST can be said balanced ____

32. The Advantage/s of a doubly-linked list over the singly-linked list is ____

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24. Which of the following statement is false about BST?

Answers

1. Minimum height of BST is $\log n$, for "n" no. of elements in it
2. Maximum height of BST is n , for "n" no. of elements in it
3. In a BST addition, deletion and searching operations can be performed in $O(\log n)$ time
4. Self Balanced BST is also called as AVL tree

25. Which of the following sorting algorithm takes minimum time when all elements are same.

26. Binary Search algorithm is also called as____



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21. we use a dynamic programming approach when ____

22. Given a hash table T with 25 slots that stores 2000 elements, the load factor α for T is ____

23. Consider an undirected unweighted graph G1. Let a BFS traversal of G1 be done starting from a vertex s. Let $d(s, u)$ and $d(s, v)$ be

24. Which of the following statement is false about BST?

25. Which of the following sorting algorithm takes minimum time when all elements are same.

Answers

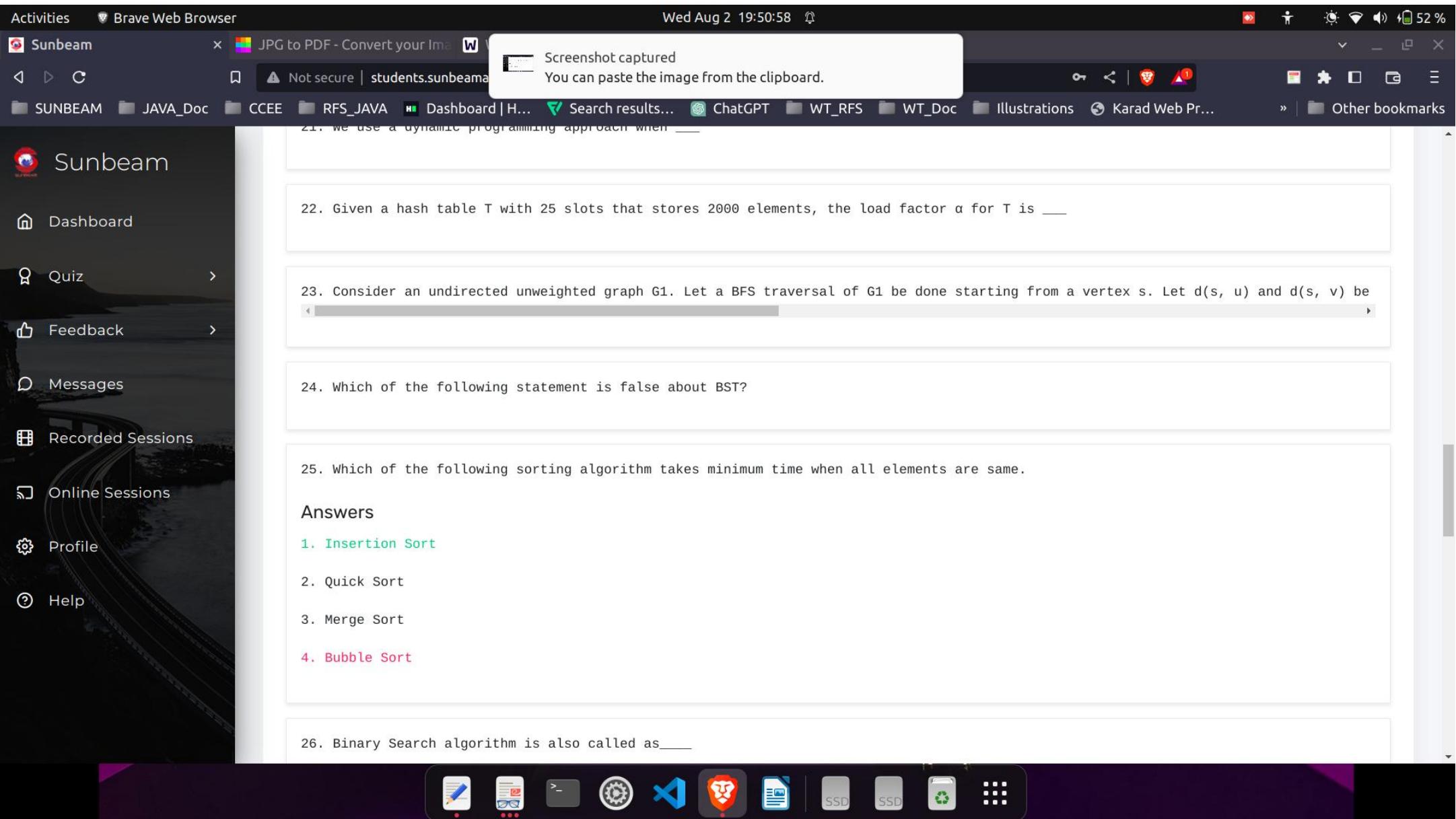
1. Insertion Sort

2. Quick Sort

3. Merge Sort

4. Bubble Sort

26. Binary Search algorithm is also called as____



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24. Which of the following statement is false about BST?

25. Which of the following sorting algorithm takes minimum time when all elements are same.

26. Binary Search algorithm is also called as_____

Answers

1. Half Interval Search
2. Logarithmic Search
3. Both of the above
4. Sequential Search

27. Priority queue can be implemented efficiently by using _____

28. Which of the following statement is false about doubly circular linked list _____

29. Which of the following statement is not true in a graph?



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24. Which of the following statement is false about BST?

25. Which of the following sorting algorithm takes minimum time when all elements are same.

26. Binary Search algorithm is also called as_____

27. Priority queue can be implemented efficiently by using _____

Answers

1. binary heap
2. balanced binary search tree
3. array
4. linked list

28. Which of the following statement is false about doubly circular linked list _____

29. Which of the following statement is not true in a graph?



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24. Which of the following statement is false about BST?

25. Which of the following sorting algorithm takes minimum time when all elements are same.

26. Binary Search algorithm is also called as_____

27. Priority queue can be implemented efficiently by using _____

28. Which of the following statement is false about doubly circular linked list _____

Answers

- list can be traversed in both forward as well as in a backward direction
- traversal can be start either from first node or from last node in O(1) time.
- addition & deletion operations are efficient as it takes O(1) time.
- searching operation takes $O(\log n)$ time.

29. Which of the following statement is not true in a graph?



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27. Priority queue can be implemented efficiently by using _____

28. Which of the following statement is false about doubly circular linked list _____

29. Which of the following statement is not true in a graph?

Answers

1. in a given graph if any vertex is connected to remaining all vertices then it is called as connected graph.
2. graph without cycle and which is not connected is called as tree
3. in a given graph if all the vertices are adjacent to remaining all vertieces then it is called as complete graph
4. graph can be a tree but tree cannot be a graph

30. To sort 1 GB of data with only 100 MB of main memory which of the following sorting algorithm will be the efficient one?

31. BST can be said balanced_____

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27. Priority queue can be implemented efficiently by using _____

28. Which of the following statement is false about doubly circular linked list _____

29. Which of the following statement is not true in a graph?

30. To sort 1 GB of data with only 100 MB of main memory which of the following sorting algorithm will be the efficient one?

Answers

1. Heap Sort
2. Quick Sort
3. Merge Sort
4. Insertion Sort

31. BST can be said balanced_____

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28. Which of the following statement is false about doubly circular linked list _____

29. Which of the following statement is not true in a graph?

30. To sort 1 GB of data with only 100 MB of main memory which of the following sorting algorithm will be the efficient one?

31. BST can be said balanced_____

Answers

- height of left subtree is greater or equal to height of right subtree
- height of left subtree is smaller or equal to height of right subtree
- for every subtree in a bst difference between height of left subtree and height of right subtree is in between -1 to 1
- for every subtree in a bst difference between height of left subtree and height of right subtree is 0.

32. The Advantage/s of a doubly-linked list over the singly-linked list is_____

33. In an unweighted, undirected connected graph, the shortest path from a vertex 0 to every other vertex is computed most efficiently,



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28. Which of the following statement is false about doubly circular linked list _____

29. Which of the following statement is not true in a graph?

30. To sort 1 GB of data with only 100 MB of main memory which of the following sorting algorithm will be the efficient one?

31. BST can be said balanced_____

32. The Advantage/s of a doubly-linked list over the singly-linked list is_____

Answers

1. doubly linked list node size is greater than node size in singly linked list
2. addition operation is efficient
3. deletion operation is efficient
4. all of above

33. In an unweighted, undirected connected graph, the shortest path from a vertex 0 to every other vertex is computed most efficiently,

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30. To sort 1 GB of data with only 100 MB of main memory which of the following sorting algorithm will be the efficient one?

31. BST can be said balanced_____

32. The Advantage/s of a doubly-linked list over the singly-linked list is_____

33. In an unweighted, undirected connected graph, the shortest path from a vertex 0 to every other vertex is computed most efficiently, in terms of time complexity by_____

Answers

1. Dijkstra's algorithm starting from vertex 0.

2. Warshall's Floyd algorithm

3. Performing a DFS starting from vertex 0.

4. Performing a BFS starting from vertex 0.

34. The priority queue is a queue in which _____

35. Which of the following tree traversal method prints the data in sorted order in a BST?

36. A binary tree has 20 leaves. The number of nodes in the tree having two children is _____

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31. BST can be said balanced__

32. The Advantage/s of a doubly-linked list over the singly-linked list is__

33. In an unweighted, undirected connected graph, the shortest path from a vertex 0 to every other vertex is computed most efficiently,

34. The priority queue is a queue in which ____

Answers

- element having highest priority can be added first
- element having highest priority can be deleted first
- element can be added in any order and only element can be deleted first having highest priority
- element can be added first only having highest priority and can be deleted in any order

35. Which of the following tree traversal method prints the data in sorted order in a BST?

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32. The Advantage/s of a doubly-linked list over the singly-linked list is _____

33. In an unweighted, undirected connected graph, the shortest path from a vertex 0 to every other vertex is computed most efficiently,

34. The priority queue is a queue in which _____

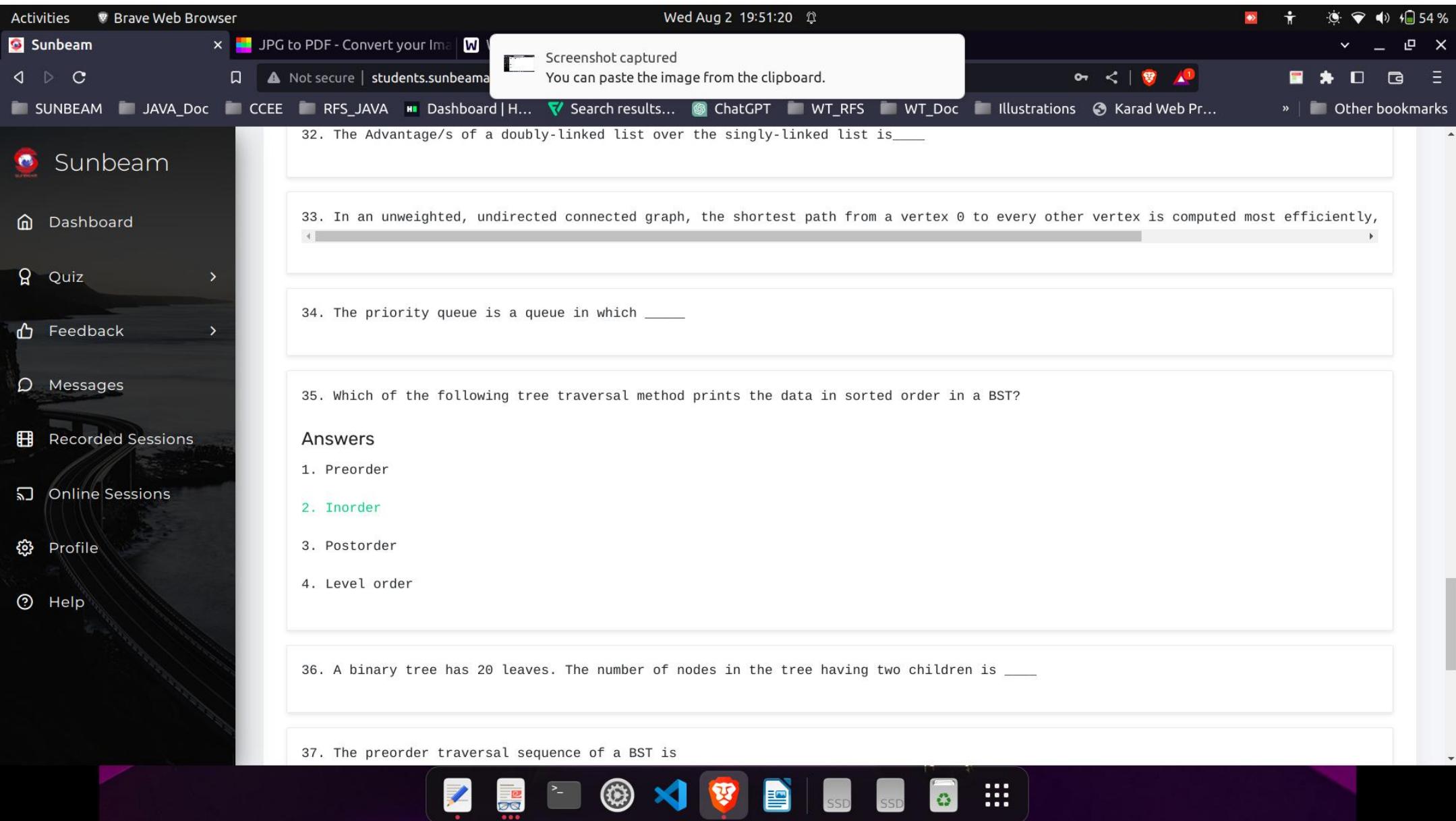
35. Which of the following tree traversal method prints the data in sorted order in a BST?

Answers

1. Preorder
2. **Inorder**
3. Postorder
4. Level order

36. A binary tree has 20 leaves. The number of nodes in the tree having two children is _____

37. The preorder traversal sequence of a BST is



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32. The Advantage/s of a doubly-linked list over the singly-linked list is _____

33. In an unweighted, undirected connected graph, the shortest path from a vertex 0 to every other vertex is computed most efficiently,

34. The priority queue is a queue in which _____

35. Which of the following tree traversal method prints the data in sorted order in a BST?

36. A binary tree has 20 leaves. The number of nodes in the tree having two children is _____

Answers

1. 18
2. 19
3. 17
4. 20

37. The preorder traversal sequence of a BST is



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35. Which of the following tree traversal method prints the data in sorted order in a BST?

36. A binary tree has 20 leaves. The number of nodes in the tree having two children is ____

37. The preorder traversal sequence of a BST is
30, 20, 10, 15, 25, 23, 39, 35, 42.
Which one of the following is the postorder traversal sequence of the same tree?

Answers

1. 10, 20, 15, 23, 25, 35, 42, 39, 30
2. 15, 10, 25, 23, 20, 42, 35, 39, 30
3. 15, 20, 10, 23, 25, 42, 35, 39, 30
4. 15, 10, 23, 25, 20, 35, 42, 39, 30

38. A BST is generated by inserting in order the following integers:
50, 15, 62, 5, 20, 58, 91, 3, 8, 37, 60, 24.

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36. A binary tree has 20 leaves. The number of nodes in the tree having two children is _____

37. The preorder traversal sequence of a BST is
30, 20, 10, 15, 25, 23, 39, 35, 42.

Which one of the following is the postorder traversal sequence of the same tree?

38. A BST is generated by inserting in order the following integers:
50, 15, 62, 5, 20, 58, 91, 3, 8, 37, 60, 24.

The number of nodes in the left subtree and right subtree of the root respectively is_____

Answers

1. 4 , 7
2. 7 , 4
3. 8 , 3
4. 3 , 8

39. The following postfix expression with single digit operands is evaluated using a stack:



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38. A BST is generated by inserting in order the following integers:
50, 15, 62, 5, 20, 58, 91, 3, 8, 37, 60, 24.
The number of nodes in the left subtree and right subtree of the root respectively is ____

39. The following postfix expression with single digit operands is evaluated using a stack:
8 2 3 ^ / 2 3 * + 5 1 * -
Note that \wedge is the exponentiation operator. The top two elements of the stack after the first $*$ is ____

Answers

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

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