Dashboard - Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519

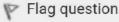
General

Quiz 2

Ouestion 1

Answer saved

Marked out of 1.00



A heap is not a binary tree

Select one:

True

False

Next page

QUIZ NAVIGATION 15 16 20 22 23 25 21 Finish attempt ...

Dashboard — Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519 - General - Quiz 2

Ouestion 2

Answer saved

Marked out of 1.00



Flag question

While deleting an element from a heap, Up-heap bubbling is used to restore the heap order property

Select one:

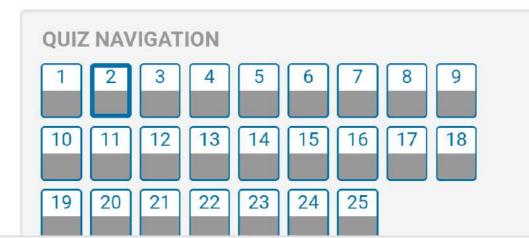


True



False

Previous page



Algorithms Design (52-19_SSZG519)(Flipped)

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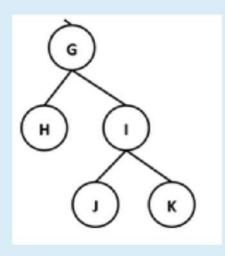
Question 3

Answer saved

Marked out of 1.00

Flag question

The preorder traversal visits the nodes of the tree in the order:



Select one:

- GIJHK
- GHIJK
- HIJKG
- JKGIH

Previous page

Dashboard - Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519

General

Quiz 2

Ouestion 4

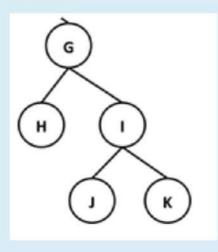
Answer saved

Marked out of 1.00



Flag question

The postorder traversal visits the nodes of the tree in the order:



Select one:

- HJKIG
- HIGKJ
- JKGIH
- HGJIK

Previous nage

Next nage

Dashboard - Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -

Question 5

Answer saved

Marked out of 1.00



Flag question

The minimum number of external nodes in a binary tree T of height h is n

Select one:





False

Previous page



Dashboard — Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519 → General → Quiz 2

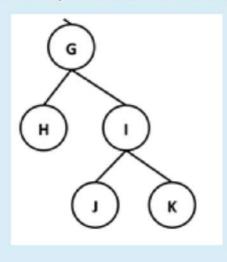
Ouestion 6

Answer saved

Marked out of 1.00

Flag question

In the given tree, the sibling of node I is node H



Select one:

True

False

Previous page

Next page

19_SSZG519)(Flipped)

Dashboard - Campus based Instruction Non-Specific Programs

2019-20 Semester 2 S2-19_SSZG519 → General → Quiz 2

Question 7

Answer saved

Marked out of 1.00



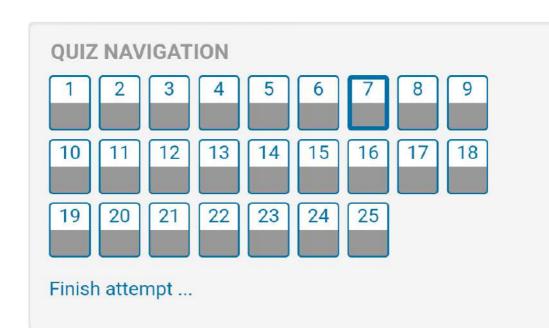
Flag question

The preorder traversal visits the nodes of the tree in the following order

Select one:

- Right, Root, Root
- Left, Right, Root
- Root, Left, Right
- Left, Root, Right

Previous page



19_SSZG519)(Flipped)

Dashboard - Campus based Instruction -Non-Specific Programs → 2019-20 Semester 2 → S2-19_SSZG519 → General → Quiz 2

Question 8

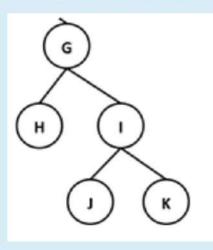
Answer saved

Marked out of 1.00



Flag question

The depth of node J in the following tree is 0



Select one:





False

Previous page

Next page























19_55ZG519)(Filipped)

Dashboard - Campus based Instruction -Non-Specific Programs → 2019-20 Semester 2 → S2-19_SSZG519 — General — Quiz 2

Ouestion 9

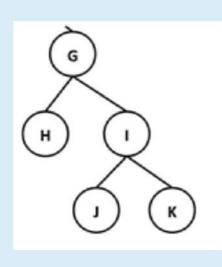
Answer saved

Marked out of 1.00



Flag question

Is G-H-I-J a path in the given tree?



Select one:

True

False

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Next page











Algoridina besign (32-19_SSZG519)(Flipped)

Dashboard - Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519

General

Quiz 2

Question 10

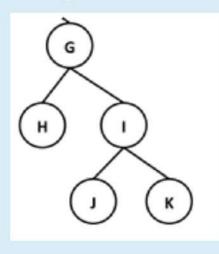
Answer saved

Marked out of 1.00



Flag question

The height of the following tree is 3



Select one:



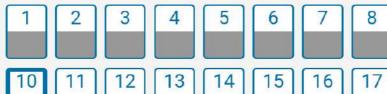
True



False

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Next page



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Ouestion 11

Answer saved

Marked out of 1.00



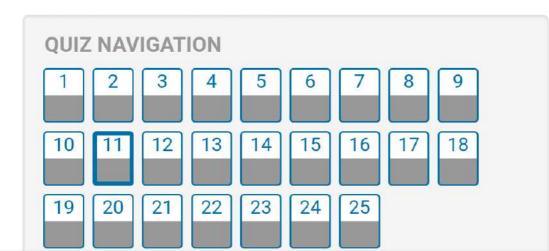
Flag question

Depth of the root node is

Select one:

- 0
- one more than the depth of its children
- two more than the depth of its children
- 1

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Dashboard - Campus based Instruction -Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519 General Quiz 2

Question 12

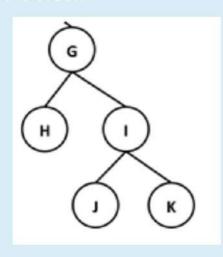
Answer saved

Marked out of 1.00



Flag question

The inorder traversal visits the nodes of the tree in the order:



Select one:

- HGJIK
- IJKHG
- IKJHG
- HIGKJ

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Dashboard - Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 -S2-19_SSZG519

General

Quiz 2

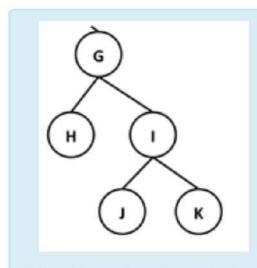
Question 13

Answer saved

Marked out of 1.00



Flag question



The above tree is a min-heap.

Select one:



True



False

Previous page

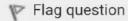
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Question 14

Answer saved

Marked out of 1.00



The time taken to insert an element into a heap is O(log n)

Select one:



False

Previous page



Algorithms Design (S2-19_SSZG519)(Flipped)

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Question 15

Answer saved

Marked out of 1.00



Flag question

In a complete binary tree, all levels except the last level are completely (maximally) filled with nodes and in the last level, nodes are filled from right to left.

Select one:





False

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19_SSZG519)(Flipped)

Dashboard — Campus based Instruction Non-Specific Programs - 2019-20 Semester 2 S2-19_SSZG519 → General → Quiz 2

Question 16

Answer saved

Marked out of 1.00



Flag question

Up-heap bubbling can stop at

Select one or more:

- the root
- any leaf
- an internal node where the heap order property is satisfied
- an internal node where the heap order property is not satisfied

Previous page



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Ouestion 17

Answer saved

Marked out of 1.00



Flag question

A node in a tree that does not have a parent is called as a leaf

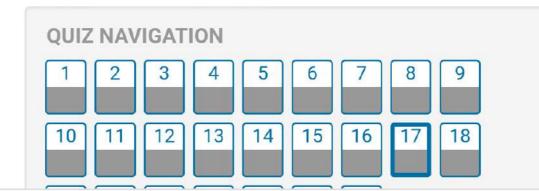
Select one:





False

Previous page



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Ouestion 18

Answer saved

Marked out of 1.00



Flag question

Which of the following statements are true about a max-heap

Select one or more:

- It is used to implement min-priority queue
- The element stored at the root node will have the maximum value
- ✓ It is used to implement max-priority queue
- The element stored at the root node will have the minimum value

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Question 19

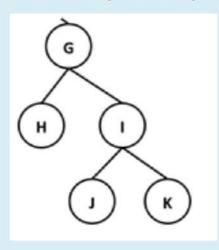
Answer saved

Marked out of 1.00



Flag question

The following tree is a proper binary tree



Select one:



True



False

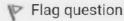
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Ouestion 20

Answer saved

Marked out of 1.00



The maximum height h of a binary tree with n nodes is

Select one:







n

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Next page























Algorithms Design (S2-19_SSZG519)(Flipped)

Data Structures and

Dashboard — Campus based Instruction Non-Specific Programs → 2019-20 Semester 2 → S2-19_SSZG519 - General - Quiz 2

Question 21

Answer saved

Marked out of 1.00

Flag question

Height of an internal node in the tree is

Select one:

- one minus the maximum height of its children
- always 0
- one plus the maximum height of its children
- one plus the minimum height of its children

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Question 22

Answer saved

Marked out of 1.00

Flag question

In the array representation of a binary tree where the root element is stored at index 1. The right child of a node at index i is at position

Select one:



2i-1



2i + 1

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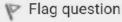


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Question 23

Answer saved

Marked out of 1.00

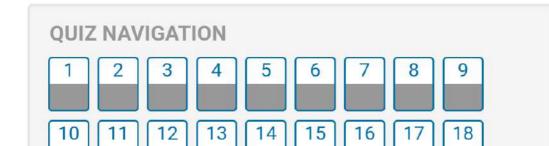


In the linked list representation of binary trees, nodes for which both left and right pointers are NULL are called as

Select one:

- External nodes
- Parent node
- Root node
- Internal nodes

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Ouestion 24

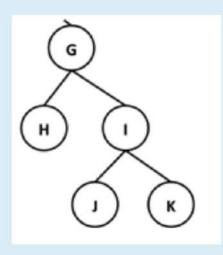
Answer saved

Marked out of 1.00



Flag question

The following tree is a complete binary tree



Select one:



True



False

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Question 25

Answer saved

Marked out of 1.00



Flag question

A complete binary tree is always a proper binary tree

Select one:





False

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Finish attempt ...

