

Topic: Class tomorrow (10/21)

01FactoryMethodDesignPattern...

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
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Quiz04-Sec03 Results for Abdul Suboor Syed

Score for this attempt: **10** out of 10
Submitted Sep 24 at 1:47pm
This attempt took 3 minutes.

Question 1

2 / 2 pts

Which of the following sequences of array elements forms a min-heap?

☐ 19, 12, 15, 13, 14, 16, 17

☒ 10, 12, 15, 13, 14, 16, 17

☐ 10, 12, 15, 13, 11, 16, 17

☐ None

Correct!

Quiz Submissions

Attempt 1: 10

Abdul Suboor Syed has 2 attempts left

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☐ None

Question 22 / 2 pts

Is the following statement true?

In a complete binary tree, a node can have only either 0 or 2 children.

☐ True

☒ False

Question 32 / 2 pts

Which of the following is true regarding min-heap?

Correct!

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
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Question 3

2 / 2 pts

Which of the following is true regarding min-heap?

☐

The value of each node must be \geq the value of each descendent

☒

The value of each node must be \leq the value of each descendent

☐

The value of each node must be \leq its ancestors

☐

None

Correct!

Question 4

2 / 2 pts

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
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None

Question 4

2 / 2 pts

Which of the following is true regarding max-heap?

☐

The value of each node must be \leq the value of each descendent

☐

The value of each node must be \geq its ancestors

☐

None

☒

The value of each node must be \geq the value of each descendent

Correct!

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Correct!

None

The value of each node must be \geq the value of each descendent

Question 5

2 / 2 pts

Is the following statement true?

A complete binary tree is a binary search tree.

True

False

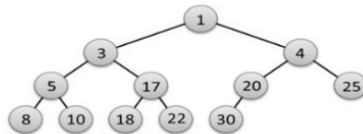
Correct!

Quiz Score: 10 out of 10

Question 1

2 / 2 pts

Consider the following min-heap represented in the form of a tree.



Is the following statement true?
The above heap tree is a complete tree.

Correct!

☒ True

☐ False

Question 2

2 / 2 pts

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Correct!

The above heap tree is a complete tree.

☒ True

☐ False

Question 2

2 / 2 pts

Is the following statement true?
An AVL tree is always a binary search tree.

Correct!

☒ True

☐ False

Question 3

2 / 2 pts

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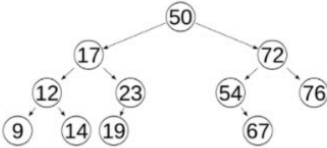
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Question 3

2 / 2 pts

Consider the following binary search tree.



where will a new element 45 be added to the above tree?

☐ Right child of 19

☒ Right child of 23

☐ Left child of 54

☐ Right child of 14

Correct!

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Question 5

2 / 2 pts

Consider the following min-heap represented in the form of a tree.

```
graph TD; 1((1)) --- 3((3)); 1 --- 4((4)); 3 --- 5((5)); 3 --- 17((17)); 5 --- 8((8)); 5 --- 10((10)); 17 --- 18((18)); 17 --- 22((22)); 4 --- 20((20)); 4 --- 25((25)); 20 --- 30((30));
```

Is the following statement true?

The above heap tree is a perfect tree.

True

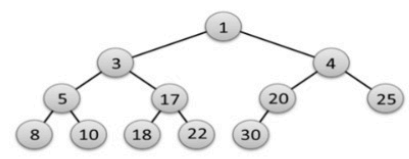
False

Correct!

Question 4

2 / 2 pts

Consider the following min-heap represented in the form of a tree.



Is the following statement true?

The above heap tree is a full tree.

- ☐ True
- ☒ False

Correct!

Topic: Class tomorrow (10/21)

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Question 4

0 / 2 pts

What will be the position of 5, when a max heap is constructed on the input elements 5, 70, 45, 7, 12, 15, 13, 65, 30, 25 in the same order?

Correct Answer

You Answered

☐ 5 will be at the second level

☐ 5 will be at the last level

☒ 5 will be at the root

☐ None

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Question 3

2 / 2 pts

Consider the following max-heap represented in the form of a tree.

```
graph TD; 1((16)) --- 2((14)); 1 --- 3((10)); 2 --- 4((8)); 2 --- 5((7)); 4 --- 8((2)); 4 --- 9((4)); 5 --- 10((1)); 3 --- 6((9)); 3 --- 7((3));
```

After adding element 20 to the above max-heap, how many swap operations are required to restore the max-heap property?

Correct!

☒ 3

☐ 1

☐ 2

☐ 0

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Question 2

2 / 2 pts

Consider the following max-heap represented in the form of a tree.

After adding element 13 to the above heap, where will element 12 be inserted?

☐ Left of 14

☒ Right of 14

☐ Right of 7

☐ Left of 7

Correct!

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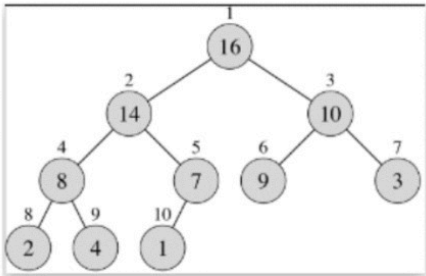
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Question 1

2 / 2 pts

Consider the following max-heap represented in the form of a tree.



After removing the top element of the above max-heap, what will be the top element of the new max-heap?

☐ 9

☐ 10

☐ 8


☒ 14

Correct!

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Correct Answer

☐ 54

☐ 19

☐ 72

Unanswered

Question 10

0 / 2 pts

Is the following statement true?
A complete binary tree is always a binary search tree.

☐ True

Correct Answer

☐ False

Quiz Score: 10 out of 20

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Unanswered

Question 9

0 / 2 pts

Consider the following binary search tree.

```
graph TD; 50((50)) --> 17((17)); 50 --> 72((72)); 17 --> 12((12)); 17 --> 23((23)); 12 --> 9((9)); 12 --> 14((14)); 23 --> 19((19)); 72 --> 54((54)); 72 --> 76((76)); 54 --> 67((67));
```

After deleting element 50, what will be the root element of the new binary search tree?

67

54

19

72

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Question 8

0 / 2 pts

Consider the following min-heap represented in the form of a tree.

After deleting the top element 1, what will be the top element of the new heap?

☐ 30

☐ None

☐ 4

☐ 3

Correct Answer

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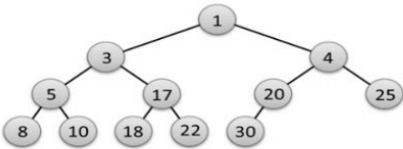
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Unanswered

Question 7

0 / 2 pts

Consider the following min-heap represented in the form of a tree.



After adding 2 in the above heap, what will be the index of 2 if the heap is represented in the form of an array?

☐ None

☐ 13

☐ 6

☐ 3

Correct Answer

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Question 6

0 / 2 pts

Is the following statement true?
A binary search tree is always a complete binary tree.

☐ True

☐ False

Correct Answer

Unanswered

Question 7

0 / 2 pts

Consider the following min-heap represented in the form of a tree.

```
graph TD; 1((1)) --- 3((3)); 1 --- 4((4)); 3 --- 5((5)); 3 --- 17((17)); 4 --- 20((20)); 4 --- 25((25))
```

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Consider the following max-heap represented in the form of a tree.

```
graph TD; 16((16)) --- 14((14)); 16 --- 10((10)); 14 --- 8((8)); 14 --- 7((7)); 8 --- 2((2)); 8 --- 4((4)); 7 --- 1((1)); 10 --- 9((9)); 10 --- 3((3));
```

after adding element 12 to the above max-heap, which of the following array represents the new max-heap?

You Answered

☒ [16, 14, 10, 8, 12, 9, 2, 3, 4, 1, 7]

☐ [16, 14, 10, 8, 7, 9, 3, 2, 4, 1, 12]

☐ [16, 10, 14, 8, 12, 9, 3, 2, 4, 1, 7]

Correct Answer

☐ [16, 14, 10, 8, 12, 9, 3, 2, 4, 1, 7]