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## Quiz 5

Started: Feb 23 at 7:37pm

### Quiz Instructions

This quiz is based on AVL Tree.



#### Question 2

2 pts

Why we need to a binary tree which is height balanced?

- ☒ to avoid formation of skew trees
- ☐ to save memory
- ☐ to attain faster memory access
- ☐ to simplify storing

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### Questions

- ✓ Question 1
- ✓ **Question 2**
- ? Question 3
- ? Question 4
- ? Question 5

Time Running: [Hide](#)

Attempt due: May 1 at 11:59pm  
27 Minutes, 56 Seconds



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## Quiz 5

Started: Feb 23 at 7:37pm

## Quiz Instructions

This quiz is based on AVL Tree.

## Questions

- ✓ Question 1
- ✓ Question 2
- ✓ Question 3
- ⊛ Question 4
- ⊛ Question 5

Time Running: Hide

Attempt due: May 1 at 11:59pm

26 Minutes, 38 Seconds



### Question 3


2 pts

Which of the following statement is correct?

- ☒ To restore the AVL property after inserting a element, we start at the insertion point and move towards root of that tree.
- ☐ To restore the AVL property after inserting a element, we start at the root node and move towards end of that tree.
- ☐ Both are correct
- ☐ Both are incorrect

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Question 4

2 pts

Consider the following AVL tree.

```
graph TD
    60 --- 20
    60 --- 100
    20 --- 80
    100 --- 120
```

Which of the following is updated AVL tree after insertion of 70


**A**


```
graph TD
    70 --- 60
    70 --- 100
    60 --- 20
    100 --- 80
    100 --- 120
```


**B**


```
graph TD
    100 --- 60
    100 --- 120
    60 --- 20
    60 --- 70
    120 --- 80
```

Attempt due: May 1 at 11:59pm  
25 Minutes, 11 Seconds





  
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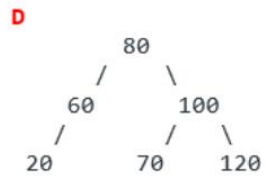
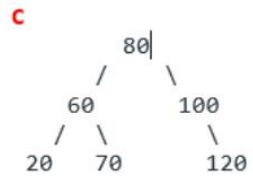
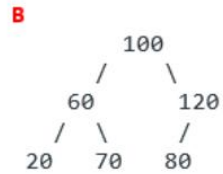
  
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## Quiz 5

Started: Feb 23 at 7:37pm

### Quiz Instructions

This quiz is based on AVL Tree.



#### Question 5

2 pts

Find out the maximum height of any AVL-tree with 7 nodes? Consider that the height of a tree with a single node is 0.

☒ 3

☐ 2

☐ 4

☐ 5

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### Questions

✓ Question 1

✓ Question 2

✓ Question 3

✓ Question 4

✓ Question 5

Time Running: Hide

Attempt due: May 1 at 11:59pm

24 Minutes, 6 Seconds



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28°C



ENG  
IN

07:43 PM  
23-02-2023

