

SECTIONS

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CSCI 2270 - Gupta, Trivedi, Zagrodzki - CS2: Data Structures

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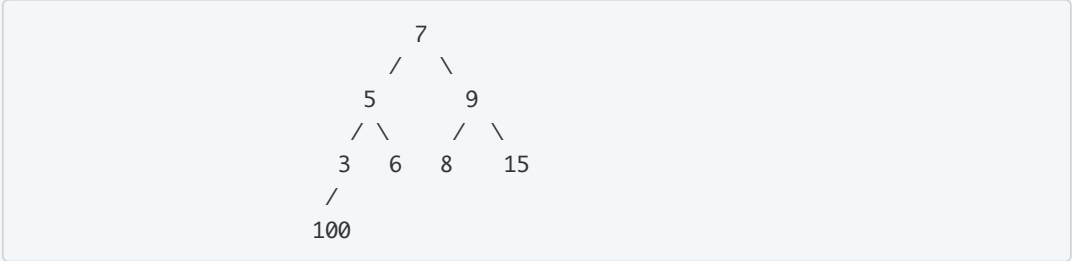
Started on	Monday, 4 March 2019, 4:18 PM
State	Finished
Completed on	Monday, 4 March 2019, 4:36 PM
Time taken	18 mins 2 secs
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.25 out of 1.25

Which of the following is true based on the below tree?



- Select one:
- ☐ a. node 6 is a parent
 - ☐ b. This is a binary search tree
 - ☒ c. node 8 is a leaf
 - ☐ d. the height of the tree is 2 because every node has 2 children

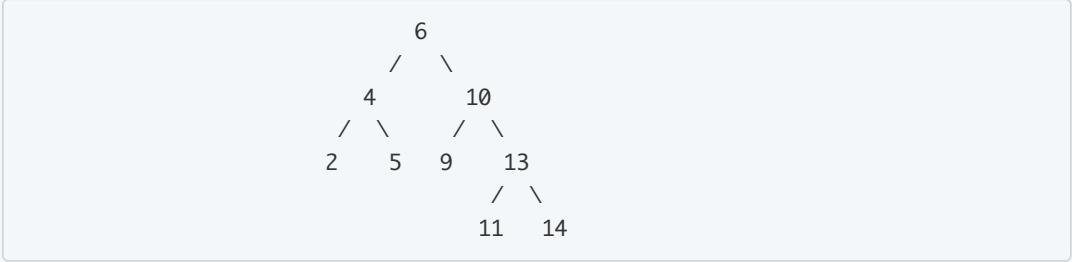
Your answer is correct.

Question 2

Correct

Mark 1.25 out of 1.25

Which of the following is true based on the below tree?



- Select one:
- ☐ a. the height of the tree is 4
 - ☐ b. this tree is a complete binary tree
 - ☐ c. node 9 is a parent
 - ☒ d. node 5 is a leaf

Your answer is correct.

Correct

Mark 1.25 out of 1.25

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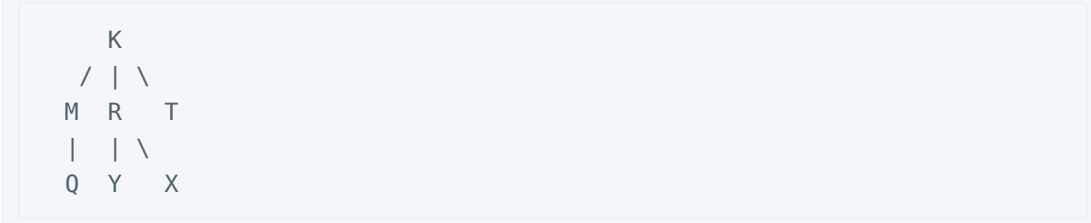
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Select one or more:

- ☒ a. Y
- ☐ b. M
- ☒ c. T
- ☒ d. X
- ☐ e. K
- ☒ f. Q
- ☐ g. R

Your answer is correct.

Question 4

Correct

Mark 1.25 out of 1.25

Given the function below, write the output (from cout) of this function.

```
int myFunc(int n)
{
    int result = 0;
    if (n <= 0)
        return 0;
    if (n == 1)
        return 1;
    result = myFunc(n-1) + myFunc(n-3);
    return result;
}
int main( )
{
    cout << myFunc(4);
    return 0;
}
```

Answer:

2

✓

Question 5

Correct

Mark 1.25 out of 1.25


What is the inorder traversal output for this tree?
(use **spaces** to separate numbers in the answer)

```
graph TD; 7 --> 5; 7 --> 9; 5 --> 3; 5 --> 6; 9 --> 8; 9 --> 15;
```

Answer:

3 5 6 7 8 9 15

✓



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Correct

Mark 1.25 out of 1.25

(use **spaces** to separate numbers in the answer)



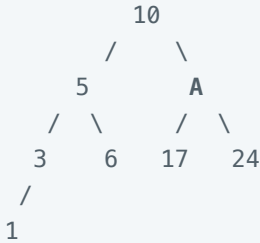
Answer: 

Question **7**

Correct


Mark 1.25 out of 1.25


The tree is a binary search tree. Which number should be put at A?
Select all that apply.



Select one or more:

☐ a. 9

☒ b. 18 

☒ c. 22 

☐ d. 14

☐ e. 27

Your answer is correct.

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Correct

Mark 1.25 out of 1.25

45. You do not need to include any node that is NULL. You must write your answer in the order that the nodes are visited.

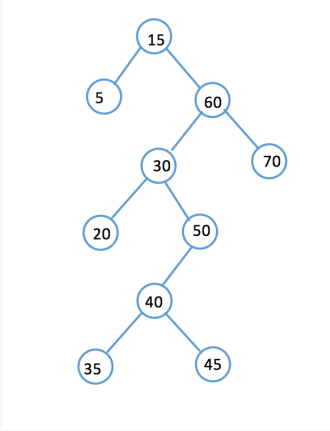
For example,

Order of nodes visited:

Node

15

means to evaluate the node with a value of 15 first.



Order of nodes visited:

Node

15

60

✓

30

✓

50

✓

40

✓

45

✓

Your answer is correct.

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