

Quiz 21

Due Jun 12 at 11:59pm

Points 15

Questions 15

Available until Jun 12 at 11:59pm

Time Limit None

Instructions

Answer the following questions.

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	11 minutes	15 out of 15

Score for this quiz: **15** out of 15

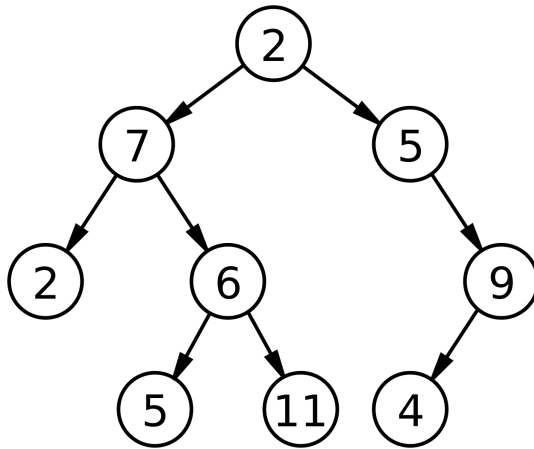
Submitted Jun 12 at 5:23pm

This attempt took 11 minutes.

Question 1

1 / 1 pts

Consider the following tree.



What is the root of the tree?

Correct!

☒ 2

☐ 5

☐ 9

☐ 7

Question 2

1 / 1 pts

Consider the tree from the previous question. Node 6 is a parent of node 7.

☐ True

Correct!☒ False**Question 3****1 / 1 pts**

Consider the tree from the previous question. Root is an internal node of the tree.

Correct!☒ True☐ False**Question 4****1 / 1 pts**

Consider the tree from the previous question. Node 9 is a leaf.

☐ True**Correct!**☒ False

Question 5**1 / 1 pts**

Consider the tree from the previous question. What is the depth of node 9?

Correct!☒ 2☐ 1☐ 3☐ 4**Question 6****1 / 1 pts**

Consider the tree from the previous question. What is the height of this tree?

Correct!☒ 3☐ 2☐ 4

☐ 5

Question 7**1 / 1 pts**

The tree from previous question is full.

☐ True

☒ False

Correct!**Question 8****1 / 1 pts**

The tree from previous question is complete.

☐ True

☒ False

Correct!**Question 9****1 / 1 pts**

The tree from previous question is perfect.

☐ True

☒ False

Correct!

Question 10

1 / 1 pts

The tree from the previous question is a binary search tree.

☐ True

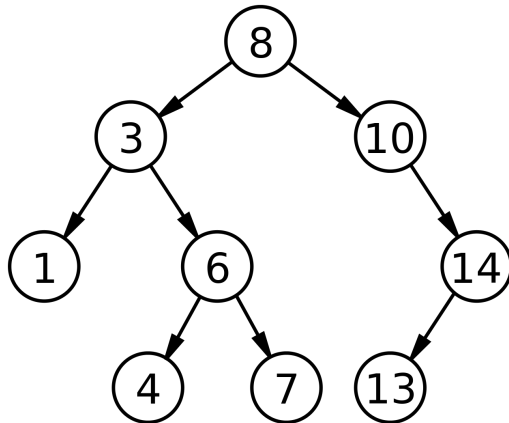
☒ False

Correct!

Question 11

1 / 1 pts

Consider the following tree.



This is a binary search tree.

Correct!

☒ True

☐ False

Question 12

1 / 1 pts

In the tree from the previous questions, how many nodes are visited to find node 13?

Correct!

☒ 4

☐ 3

☐ 5

Question 13**1 / 1 pts**

What is the child of node 6 in the tree from previous question?

Correct!☒ 4☐ 3☐ 1☐ 8**Question 14****1 / 1 pts**

What is the successor of node 7 in the tree from previous question?

Correct!☒ 8☐ 4☐ 10☐ 13

Question 15**1 / 1 pts**

Consider the tree from the previous question. Where can node 2 be inserted?

Correct!☒ Right subtree of 1.☐ Left subtree of 4.☐ Left subtree of 1.☐ Left subtree of 7.**Quiz Score: 15 out of 15**