🏠 Curso / GTx CS1332x Course II Wrap-up / Practice Exam

🕐

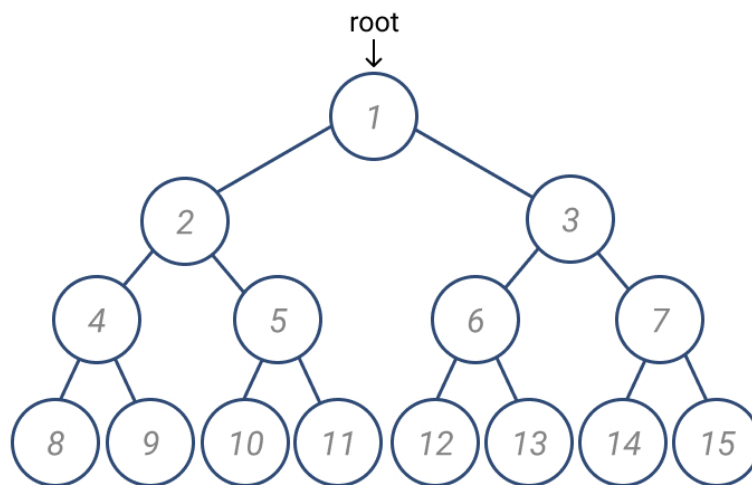< Anterior   ☑✓ ☑✓ ▤✓ ☑✓ ☑✓ ☑✓ ▤✓ ☑✓ ☑✓ ▤✓   Siguiente >
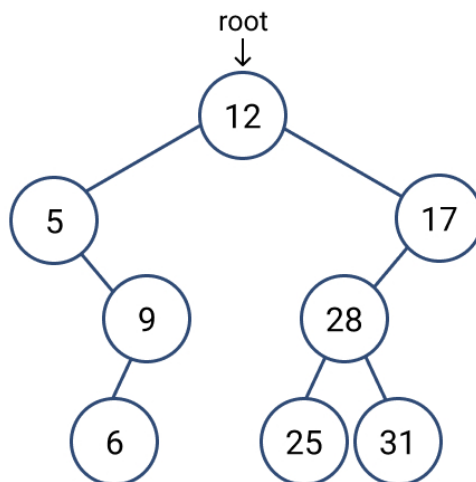
Tree Diagramming

🔖 Marcar esta página

Binary Search Tree Operations

Answer Format: To show the resulting tree after an operation is complete, use the guide tree below. Each node in this tree is numbered 1-15. For each node in the guide tree, if the resulting tree has data in that position, write the data. Otherwise, write `null`. Use spaces to connect each element in your answer.

root
↓

Example:

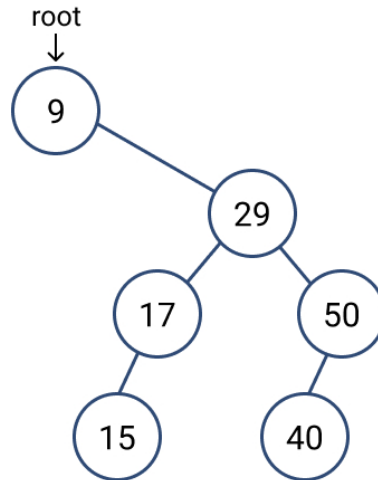Below is a tree that is the result of a completed operation:

root
↓

Using the guide tree, the answer becomes:

`12 5 17 null 9 28 null null null 6 null 25 31 null null`

Remember to write `null` when there is no data in a given location. You should have 15 total elements in your answer (null and non-null).

Note: If necessary, replace a node with its **successor**.

Given this binary search tree, perform the operation below.

root
↓

9

29

17

50

15

40

Remove 9 from the tree above

0 puntos posibles (no calificables)

Write the data that is in resulting tree after the operation is performed. The answer is to be formatted according to the guide tree. Remember to write null when there is no data in a given location. You should have 15 total elements in your answer (null and non-null).
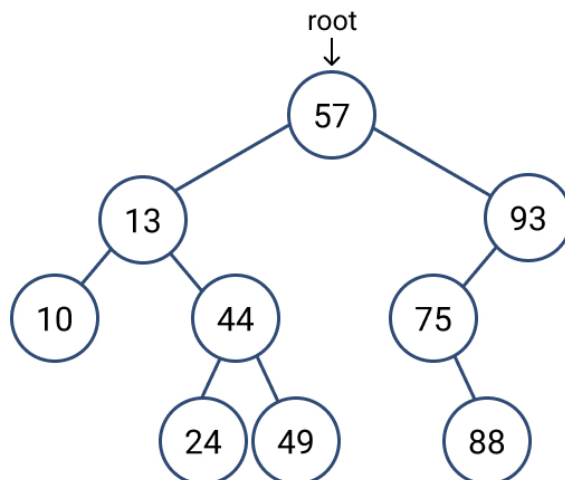
29 17 50 15 null 40 null null nu

✔ Answer: 29 17 50 15 null 40 null null null null null null null null null

Enviar

Mostrar respuesta

ℹ Las respuestas son mostradas en el problema

Given this binary search tree, perform the operation below.

root
↓

57

13

93

10

44

75

24

49

88

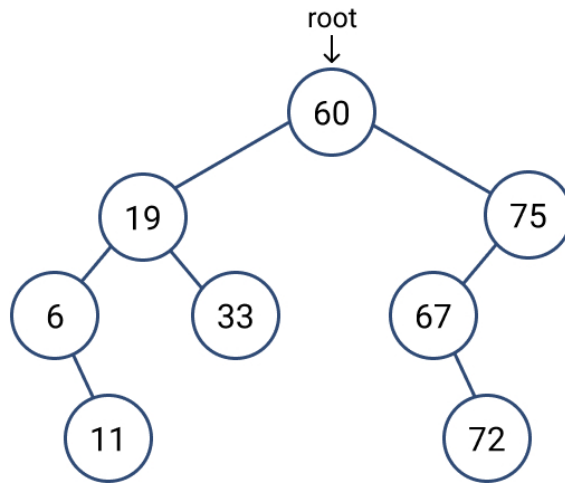## Remove 10 from the tree above

0 puntos posibles (no calificables)

Write the data that is in resulting tree after the operation is performed. The answer is to be formatted according to the guide tree. Remember to write null when there is no data in a given location. You should have 15 total elements in your answer (null and non-null).

57 13 93 null 44 75 null null nu

✔ Answer: 57 13 93 null 44 75 null null 24 49 null 88 null null

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ℹ️ Las respuestas son mostradas en el problema

Given this binary search tree, perform the operation below.

root
↓

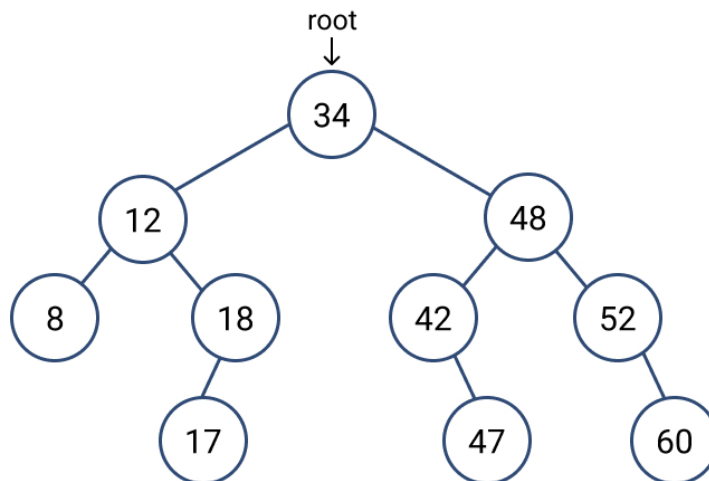## Remove 60 to the tree above

0 puntos posibles (no calificables)

Write the data that is in resulting tree after the operation is performed. The answer is to be formatted according to the guide tree. Remember to write null when there is no data in a given location. You should have 15 total elements in your answer (null and non-null).

| 67 19 75 6 33 72 null null 11 n | ✔ Answer: 67 19 75 6 33 72 null null 11 null null null null null null

Enviar   Mostrar respuesta

ℹ️ Las respuestas son mostradas en el problema

Given this binary search tree, perform the operation below.

root
↓

Add 26 to the tree above

0 puntos posibles (no calificables)

Write the data that is in resulting tree after the operation is performed. The answer is to be formatted according to the guide tree. Remember to write null when there is no data in a given location. You should have

15 total elements in your answer (null and non-null).

34 12 48 8 18 42 52 null null 1   ✔ Answer: 34 12 48 8 18 42 52 null null 17 26 null 47 null 60

Enviar   Mostrar respuesta

ⓘ Las respuestas son mostradas en el problema

Scratchpad

Below is a textbox you can use as a scratchpad while you work through this problem; you should be able to click in the bottom-right and drag to expand it for your use. No text in this box will be used by the grading script, but you can use it to take notes and work through the exercise. Note that text entered in this box **will not be saved** if you leave and return to this page.

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