Course is completed. The course result can no longer be changed.

# Binary Search Tree







## Quiz

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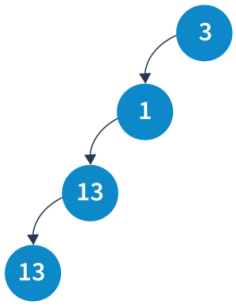
Now, it's time for a short quiz to recap what you've learned. The quiz is **graded**, so you can take it only once. Each question will be followed by feedback explaining why your answer is right or wrong. If your answer is incorrect, you will see a suggestion of what you might need to refresh your memory.

Good luck!

*Read the question below and select the correct answer. Then, click "Submit."*

Which of the following are characteristics of the binary tree below?



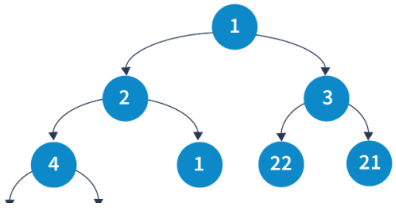

- Full
- Complete
- Balanced
- Perfect
- Skewed
- Pathological

Correct: This tree is skewed as the nodes on the left prevail.

Submit You have used 1 of 1 attempt

*Read the question below and select the correct answer. Then, click "Submit."*

Which of the following is the postorder traversal of the binary tree below?




- [x] [2, 53, 4, 1, 2, 22, 21, 3, 1]
- [ ] [2, 53, 4, 2, 1, 22, 21, 3, 1]
- [ ] [2, 53, 1, 2, 4, 22, 21, 3, 1]
- [ ] [2, 53, 1, 4, 22, 2, 21, 3, 1]
- [ ] [2, 53, 3, 2, 1, 22, 21, 3, 1]
- [ ] [2, 53, 4, 1, 2, 21, 22, 3, 1]

✔

Correct: Well done!

Submit You have used 1 of 1 attempt

*Read the question below and select the correct answer. Then, click "Submit."*

Suppose there is a BST with N nodes and a depth of h.
What is the time complexity of the "search" operation?

- [ ] O(N)
- [ ] O(N+h)
- [ ] O(log h)
- [ ] O(log N)
- [x] O(h)
- [ ] O(log N + log h)

✔

Correct: In the worst case, you will have to go to the bottom of the tree, which means the complexity will be O(h) operations.

Submit You have used 1 of 1 attempt

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