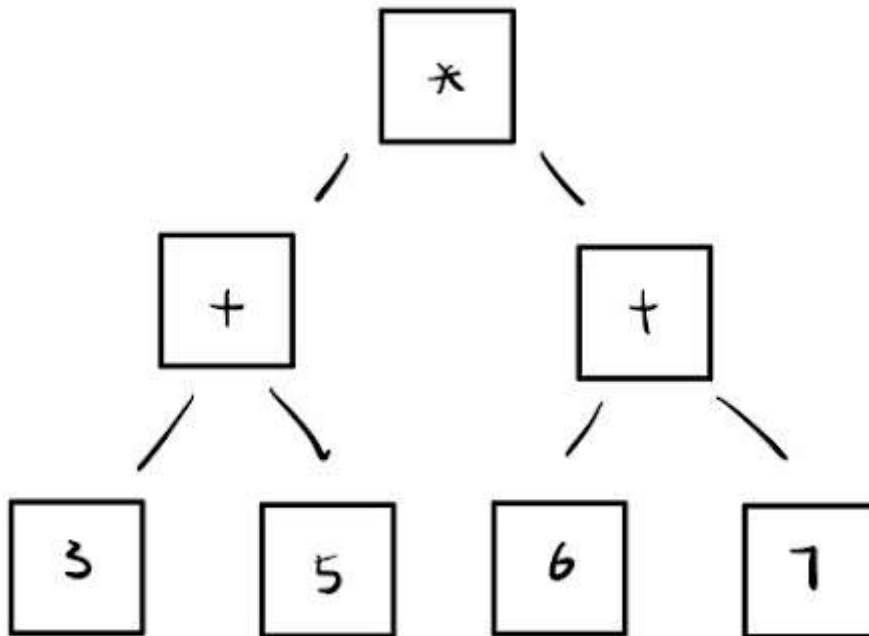


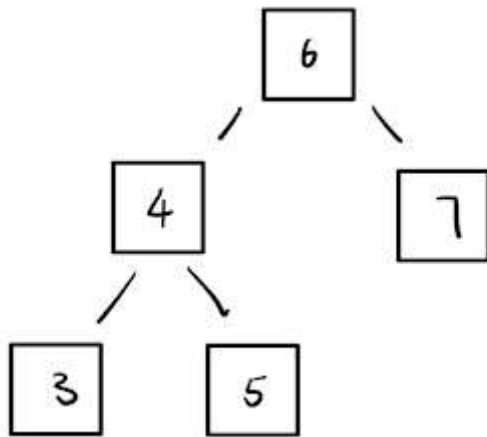
Given the binary tree below that encodes the mathematical expression: $((3 + 5) * (6 + 7))$. Which of the following tree traversals is most suitable for implementing a function that evaluates the expression to the correct answer?



- ☐ Pre-order traversal
- ☐ In-order traversal
- ☐ Post-order traversal

What is the in-order traversal of the tree below? *

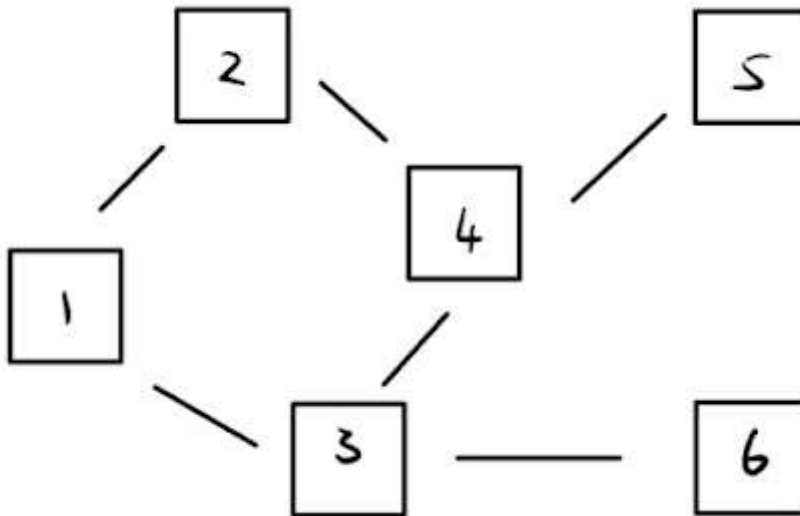
2 points



- ☐ 6, 4, 7, 3, 5
- ☐ 6, 4, 3, 5, 7
- ☐ 3, 5, 4, 7, 6
- ☐ 3, 4, 5, 6, 7



For the graph below, given that its DFS-preorder traversal is 1, 2, 4, 3, 6, 5, * 2 points
what is its DFS-postorder traversal?



- ☐ 6, 3, 4, 2, 1, 5
- ☐ 6, 3, 4, 5, 2, 1
- ☐ 6, 3, 5, 4, 2, 1
- ☐ 6, 5, 4, 3, 2, 1

A copy of your responses will be emailed to yiyunchen@berkeley.edu.

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