

Vincenzo D'Aria  
CS 253  
4/3/22

### Post Order Traversal:

- 1) Traverse Left
- 2) Traverse Right
- 3) Visit Root

### Inorder Traversal:

- 1) Traverse Left
- 2) Visit Root
- 3) Traverse Right

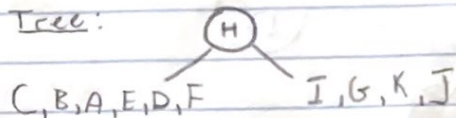
## Construct Binary Tree

Post order  
A B C D E F I K J G H

Root  $\uparrow$

Inorder  
C B A E D F H I G K J

Tree:

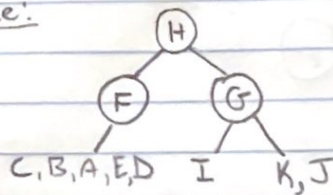


ABCDEFGHIJKL

L. Root

R. Root

Tree:



ABC ~~DE~~ ~~IK~~ ~~JN~~  
 ↑                    ↑  
 L. Root            R. Root

L. Root

R, R<sub>004</sub>

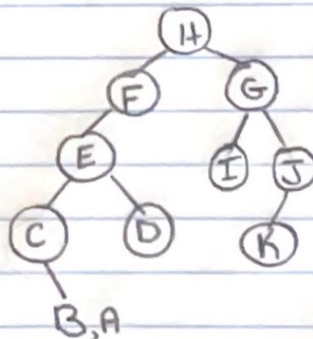
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graph TD
    H((H)) --> F((F))
    H --> G((G))
    F --> E((E))
    F --> D((D))
    E --> C1B1A[C1, B1, A]
    G --> I((I))
    G --> J((J))
    J --> K((K))

```

ABCDEFKSGH  
↑  
L Root

L Root



A B ~~C~~ ~~D~~ ~~E~~ ~~F~~ ~~G~~ ~~H~~ ~~I~~ ~~J~~ ~~K~~ ~~L~~



L. Root

Final Resulting Tree

