Data Structures
Tree – Binary Search Tree

Team Emertxe

Binary Search Tree - Traversal

Traversal

Tree Traversal:

Traversal is a process to visit all the nodes of a tree and print their values too

Types

- In-Order
- Pre-Order
- Post-Order
- Level-Order

Traversal

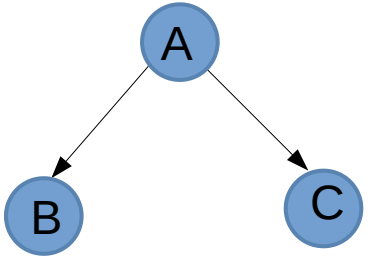
In Order:

- Visit Left child
- Visit Parent
- Visit Right child

Traversal

In Order:

- Visit Left child
- Visit Parent
- Visit Right child

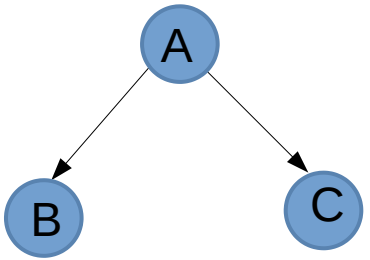


Output = B A C

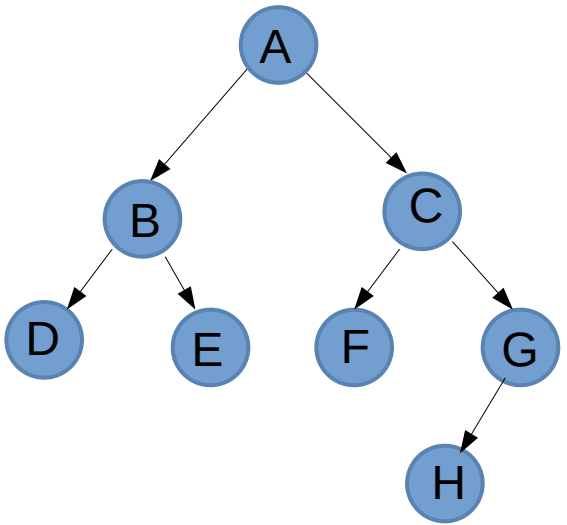
Traversal

In Order:

- Visit Left child
- Visit Parent
- Visit Right child



Output = B A C



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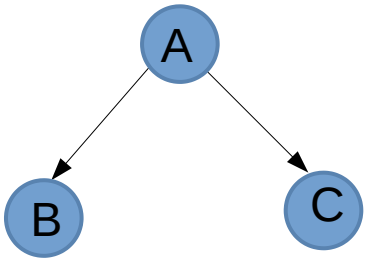
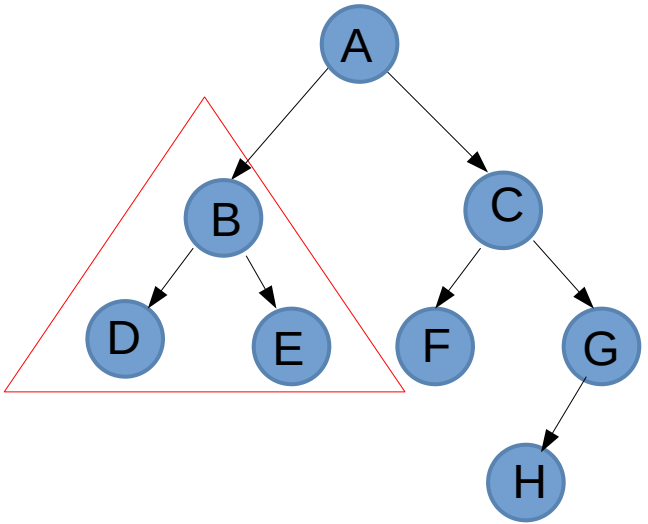


Output = B A C

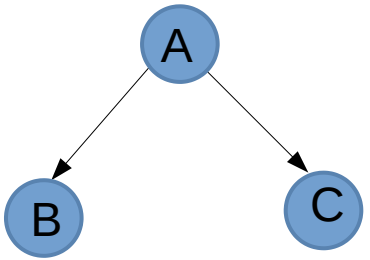


Output = D B E

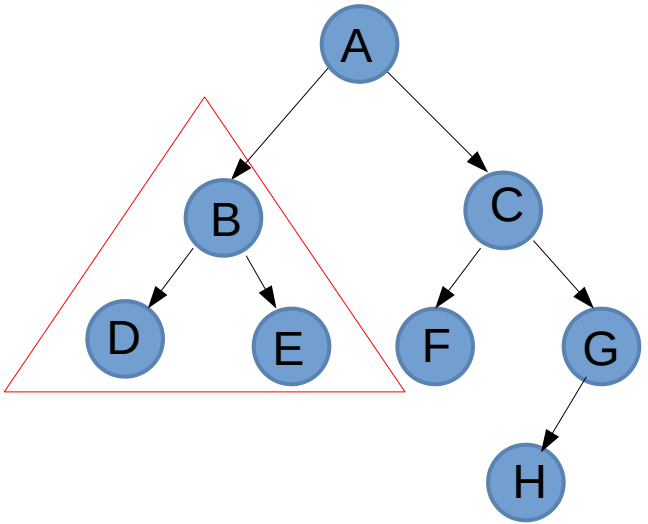
Traversal

In Order:

- Visit Left child
- Visit Parent
- Visit Right child



Output = B A C



Output = D B E A

Traversal

In Order:

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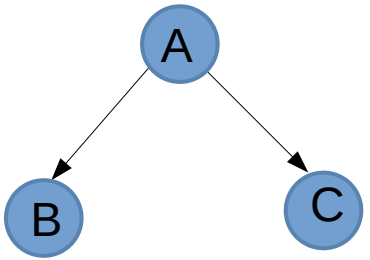
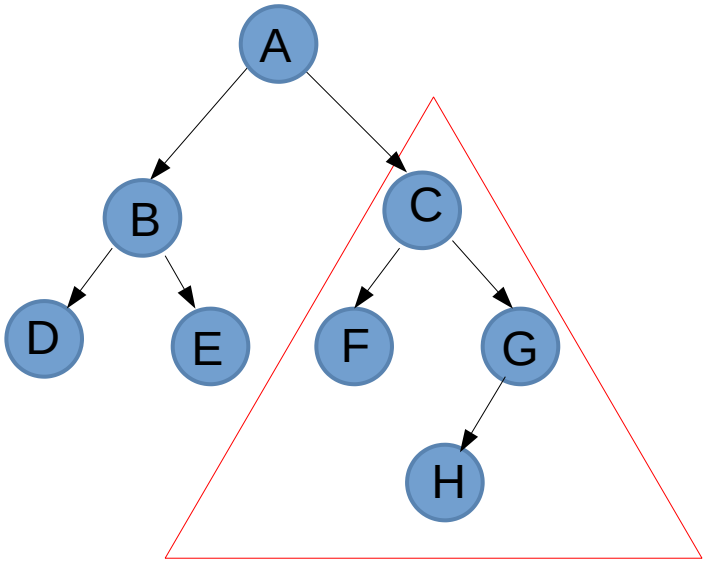


Output = B A C

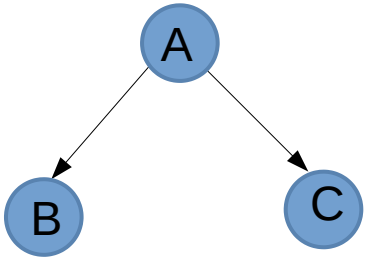


Output = D B E A F C H G

Traversal

Post Order:

- Visit Left child
- Visit Right child
- Visit Parent



Output = B C A

Traversal

Post Order:

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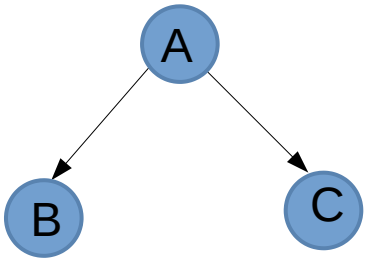
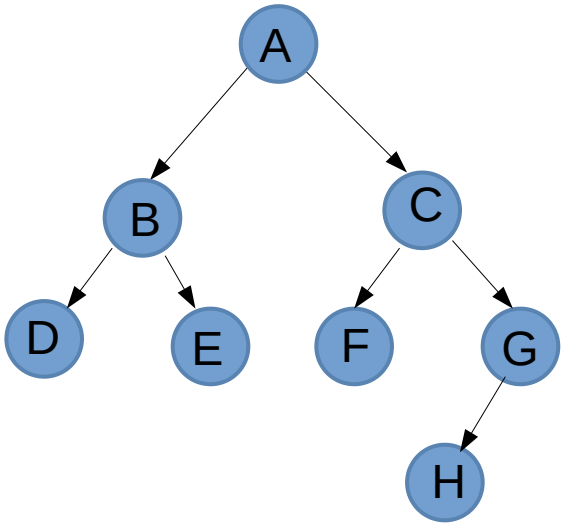


Output = B C A



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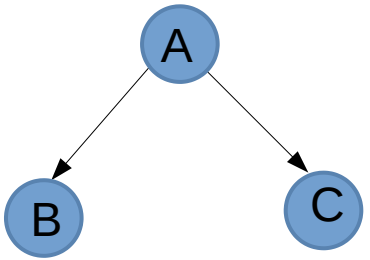
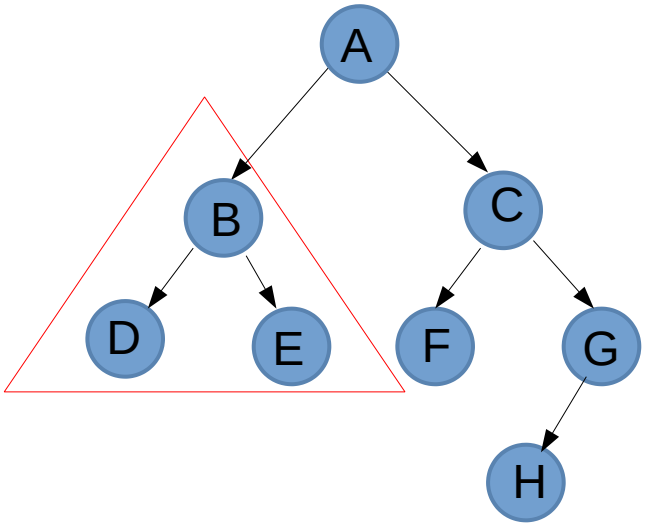


Output = B C A



Output = D E B

Traversal

Post Order:

- Visit Left child
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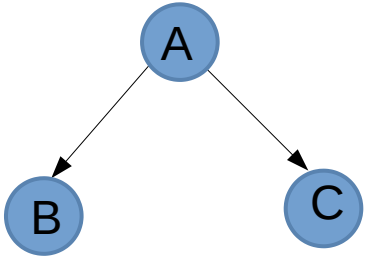
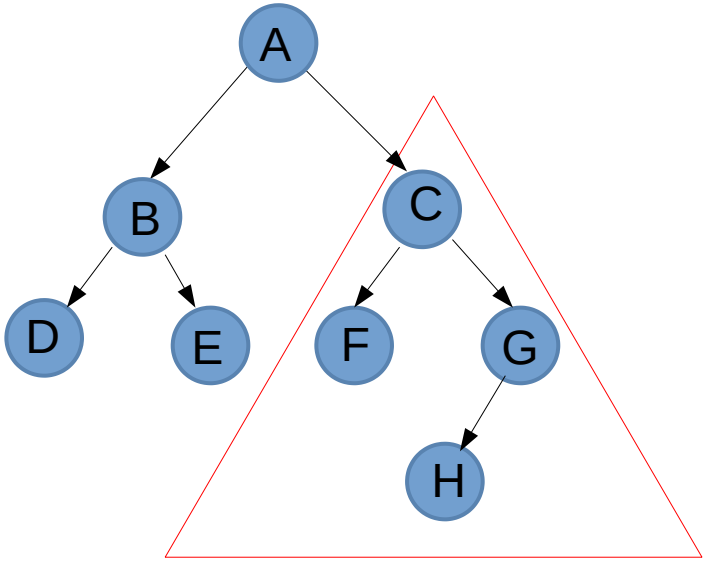


Output = B C A



Output = D E B F H G C A

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Pre Order:

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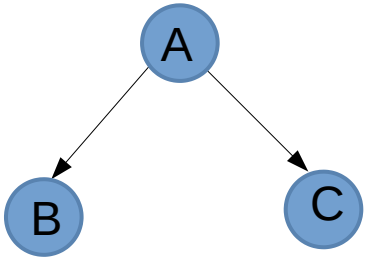

Output = A B C

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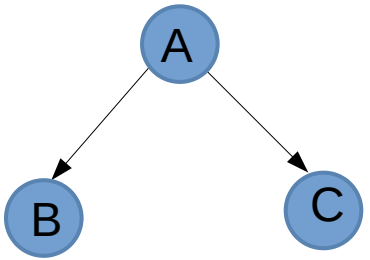
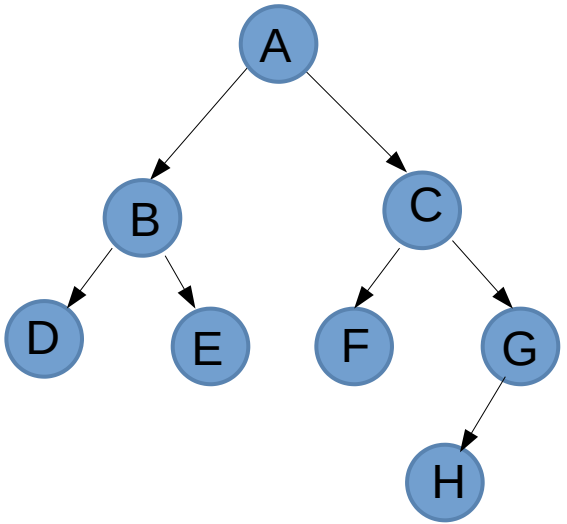


Output = A B C

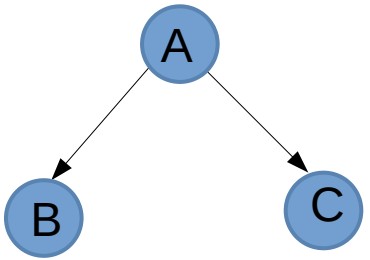


Output = A

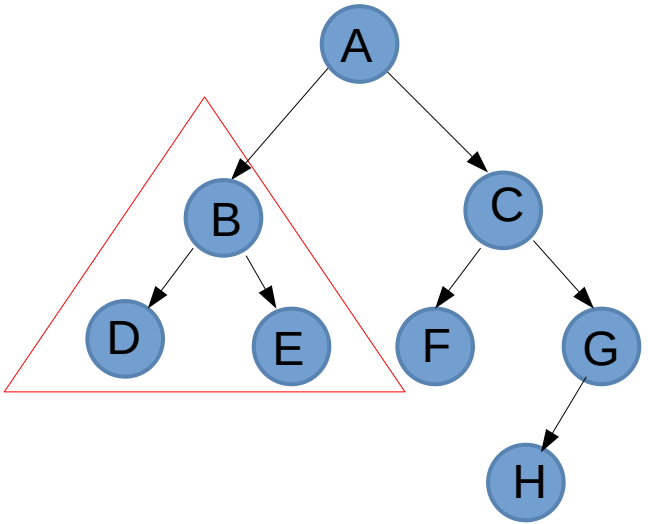
Traversal

Pre Order:

- Visit Parent
- Visit Left child
- Visit Right child



Output = A B C



Output = A B D E

Traversal

Pre Order:

- Visit Parent
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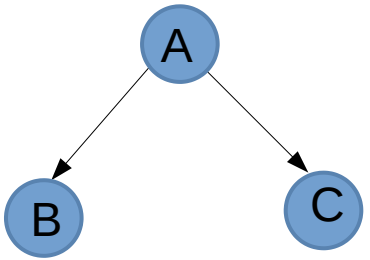
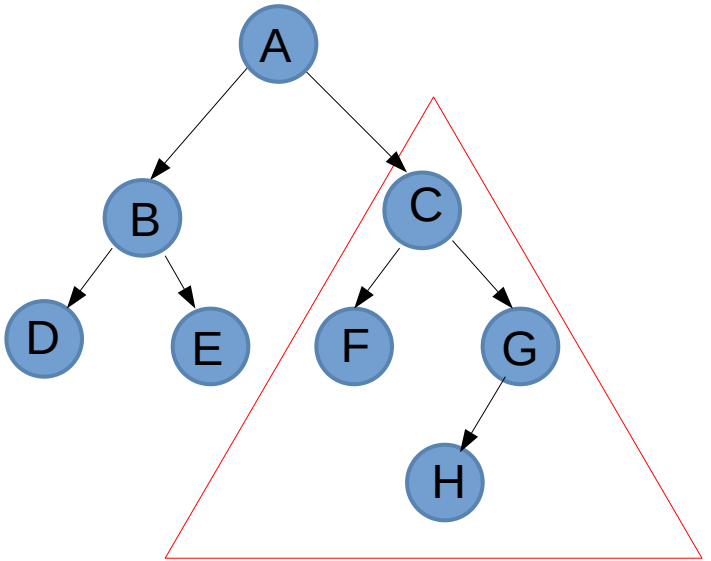


Output = A B C



Output = A B D E

Output = A B D E C F G H

Traversal

Level Order:

- In Level Order we visit every node on a level before going to a lower level,
- (Left to Right).

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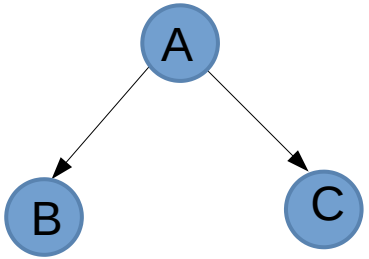
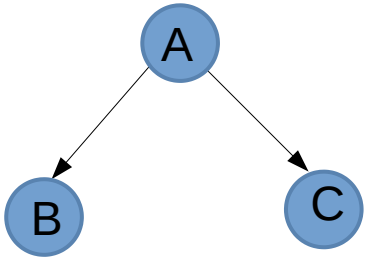


Output = A B C

Traversal

Level Order:

- In Level Order we visit every node on a level before going to a lower level,
- (Left to Right).



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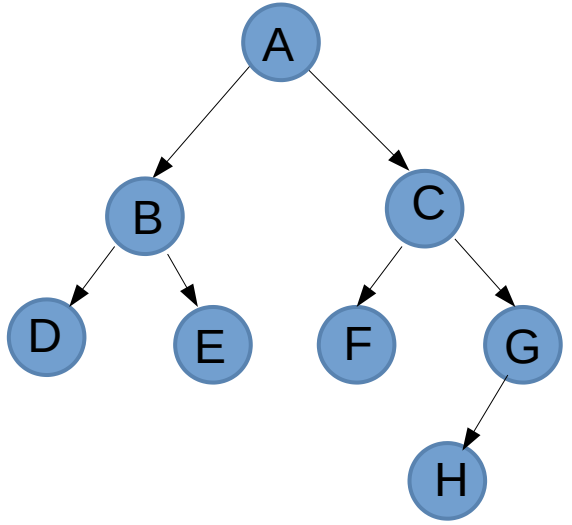

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Inorder -Algorithm