An Autonomous Institution

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RTMENT OF INFORMATION TECHNOLOGY

DATASTRUCTURES

II YEAR III SEM

UNIT 2 – TREE DATASTRUCTUES

TOPIC 2 – TREE TRAVERSALS

I NEE I NAVENJAL

it all the nodes of a tree

alues it contains

raversal

Traversal

· Traversal







In-order
<left><root><right>



•Post-order

<left><right><root>



Inorder: BAC Preoder: ABC Postorder: BCA



Example Tree

Depth First Traversals:

- (a) Inorder (Left, Root, Right): 42513
- (b) Preorder (Root, Left, Right): 12453
- (c) Postorder (Left, Right, Root): 45231



<u>Tree traversal:</u>

(**red**): F, B, A, D, C, E, G, I, H; **rellow**): A, B, C, D, E, F, G, H, I;

- e a prefix expression from Expression Trees
- sily be transformed into machine code
- nd Threads



- er traversal of a binary tree the second step is _
- he right subtree
- he left subtree
- ight subtree and visit the root
- oot
- in-order traversal for the given tree.



lsdatascience.com/4-types-of-tree-traversal-algorithms

edu/~cbourke/Lecture-Trees.pdf

<u>sa-server.cs.vt.edu/ODSA/Books/Every/html/BinaryTr</u>

