
Experiment 7. Traversals of Binary Trees Part I

I. Experiment purpose

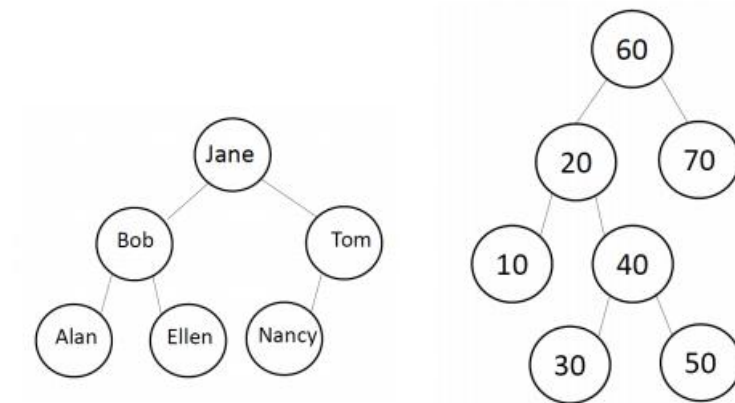
For this lab, you will practice to traverse binary tree in three ways.

II. Use instruments and materials

ProcessOn

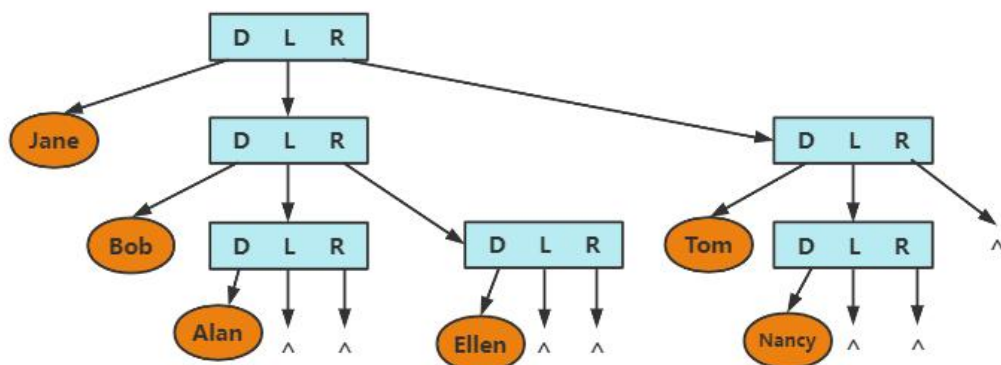
III. Experiment content

Given the following binary trees, list the nodes in the order they are visited in a traversal such as a preorder traversal, an inorder traversal, or a postorder traversal.



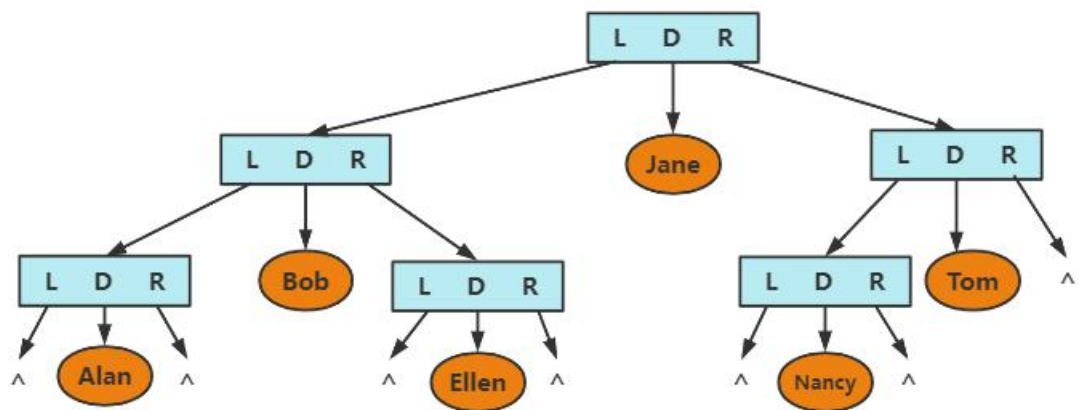
IV. Test steps and process records

Preorder: Jane, Bob, Alan, Ellen, Tom, Nancy



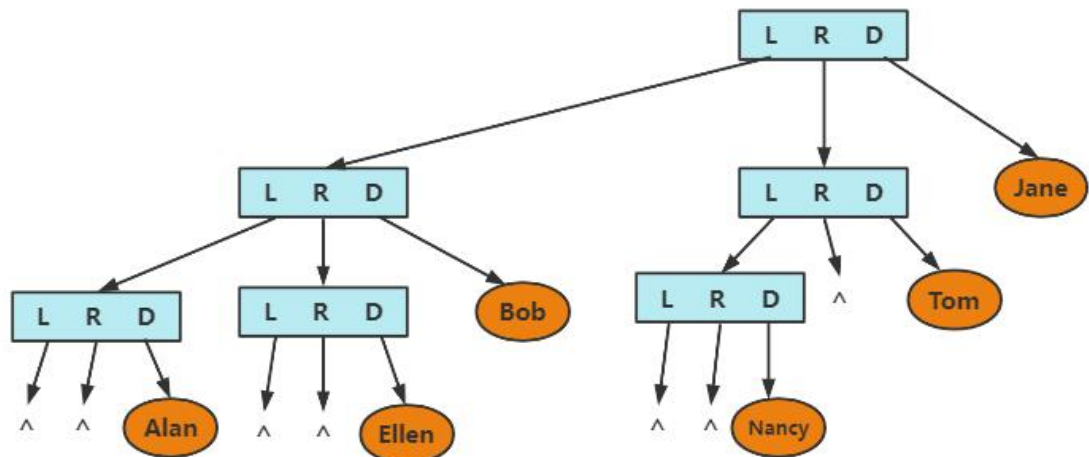
Graph 1 preorder_1

Inorder: Alan, Bob, Ellen, Jane, Nancy, Tom



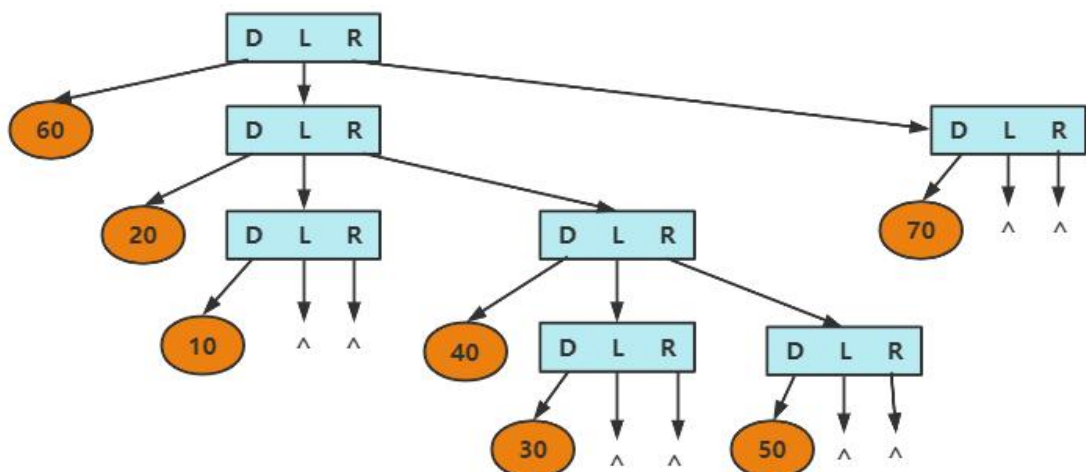
Graph 2 inorder_1

Postorder: Alan, Ellen, Bob, Nancy, Tom, Jane



Graph 3 postorder_1

Preorder: 60, 20, 10, 40, 30, 50, 70



Graph 4 preorder_2

Inorder: 10, 20, 30, 40, 50, 60, 70

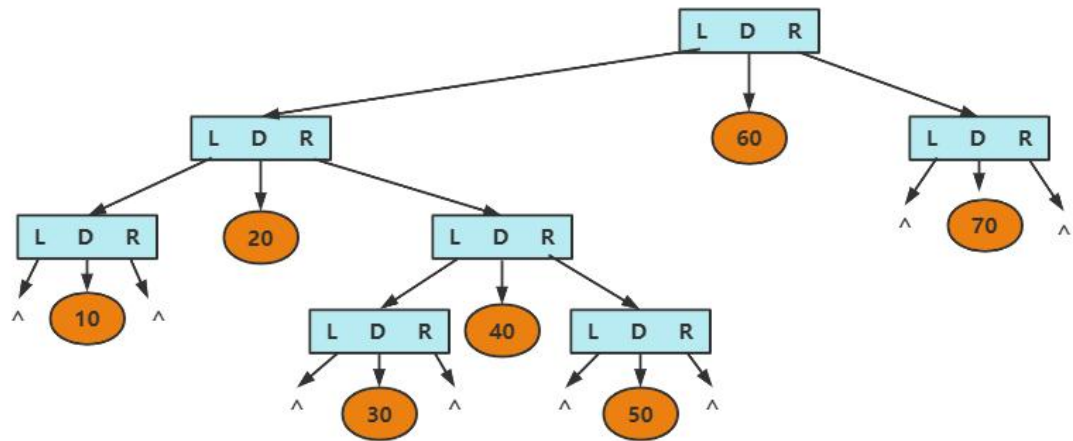
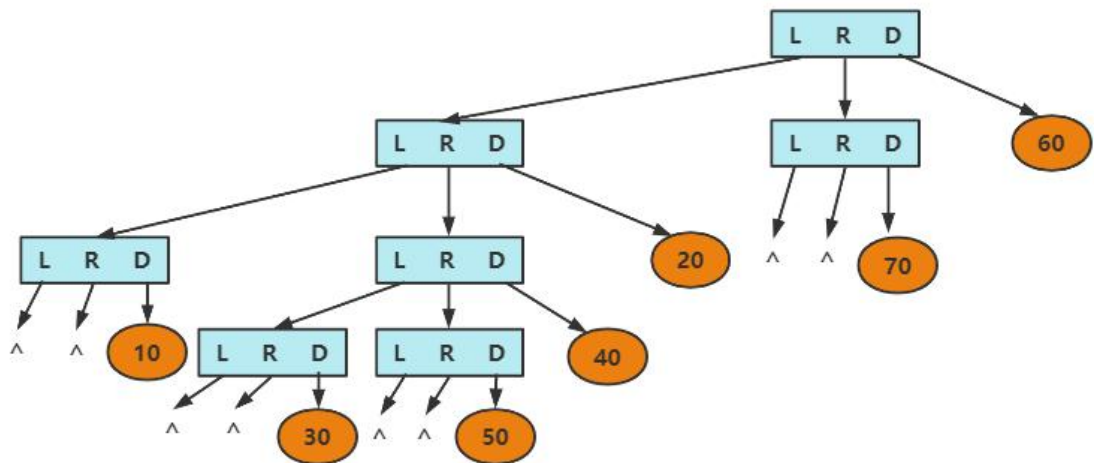


图 5 inorder_2

Postorder: 10, 30, 50, 40, 20, 70, 60



Graph 6 postorder_2

V. Experimental gains and experiences

1. Learn about Binary Tree.
2. Learn about the three ways to traverse binary tree.