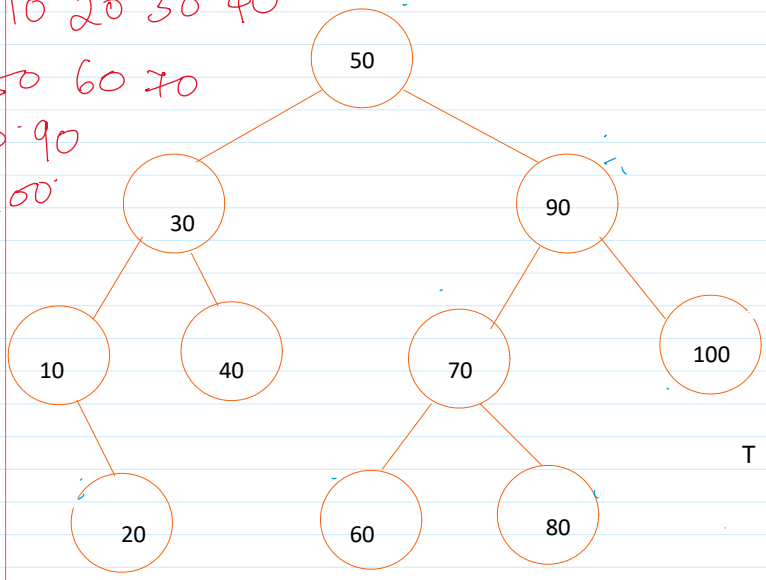
Inorder — L P R.

15 October 2024 20:56

10 20 30 40
50 60 70
80 90
100




```
Struct node *trav = root;

While(trav != NULL || !stack_empty(&S)
{
    While(trav != NULL)
    {
    Push(&S,trav);
    Trav = trav->left;
    }

    If(!stack_empty(&S)
    {
        Trav = Peek(&S);
        Pop(&S);
    }
    Printf("%d", trav->data);
    Trav = trav->right;
}
```

Start traversal from root.

1) Traverse to left till the NULL. But as we traverse to left, we are loosing the parent node itself. So push the parent on the stack and traverse till NULL.
2) Pop the element from stack, if stack is not empty.
3) print it .
4) move to right.
   There is the possibility that the right node may have a sub tree, so repeat the steps again. Till trav is not NULL or till stack is not empty.