Consider the following small binary tree:

```
          12
         /  \
        2    19
         \   / \
         3 17   30
           /      \
          15       35
```
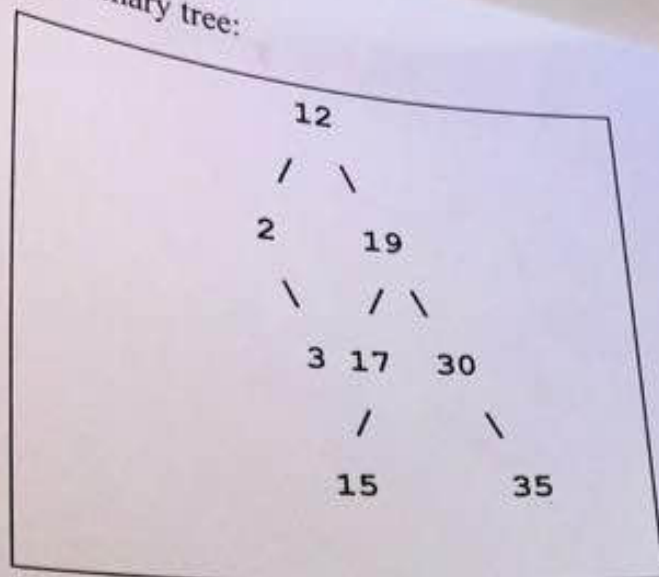
i. Write the order of the nodes visited in an **in-order** traversal:

Ans:

ii. Write the order of the nodes visited in a **pre-order** traversal:

Ans:

iii. Write the order of the nodes visited in a **post-order** traversal:

Ans:

Using stack convert the Infix expression 3 * 6 + (1 * 5 + 7) + 4 *6   to equivalent Postfix notation.

List two operations possible for general lists that are not allowed for either stacks or queues