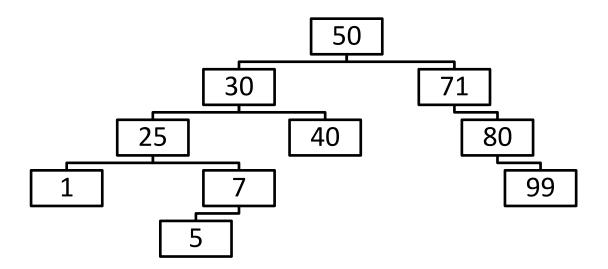1. Draw the BST based on the input 50, 30, 25, 71, 80, 99, 40, 1, 7, 5. Then, list the items in the order of pre-order, in-order and post-order.

```
                        ┌────┐
                        │ 50 │
                        └────┘
              ┌──────────┴──────────┐
           ┌────┐                 ┌────┐
           │ 30 │                 │ 71 │
           └────┘                 └────┘
        ┌─────┴─────┐                 └──┐
     ┌────┐      ┌────┐              ┌────┐
     │ 25 │      │ 40 │              │ 80 │
     └────┘      └────┘              └────┘
    ┌───┴───┐                           └──┐
 ┌────┐  ┌────┐                        ┌────┐
 │ 1  │  │ 7  │                        │ 99 │
 └────┘  └────┘                        └────┘
        ┌──┘
     ┌────┐
     │ 5  │
     └────┘
```

Pre-order   : 50, 30, 25, 1, 5, 7, 40, 71, 80, 99

ANSWER   : 50, 30, 25, 1, 7, 5, 40, 71, 80, 99

In-order   : 1, 25, 5, 7, 30, 40, 50, 71, 80, 99

ANSWER   : 1, 5, 7, 25, 30, 40, 50, 71, 80, 99

Post-order   : 1, 5, 7, 25, 40, 30, 99, 80, 71, 50

ANSWER   : 5, 7, 1, 25, 40, 30, 99, 80, 71, 50