## **Code Output - OCdt Michael Jiang**

```
----- Question 1 ------
t->preOrder() outputs
t->postOrder() outputs
t->inOrder() outputs
t->search(4) outputs
t->printTree() outputs []
t->height() outputs -1
t->remove(4) outputs
----- Question 2 ------
t->preOrder() outputs 10,
t->postOrder() outputs 10,
t->inOrder() outputs 10,
t->search(4) outputs
t->search(5) outputs
t->search(10) outputs Data10
t->printTree() outputs [(10,Data10)]
t->height() outputs 0
t->remove(10) outputs Data10
----- Question 3 -----
t->preOrder() outputs 10, 6, 3, 2, 15, 13, 16,
t->postOrder() outputs 2, 3, 6, 13, 16, 15, 10,
t->inOrder() outputs 2, 3, 6, 10, 13, 15, 16,
```

```
t->search(13) outputs Data13
t->search(100) outputs
t->search(5) outputs
t->printTree() outputs [(2,Data2), (3,Data3), (6,Data6), (10,Data10),
(13, Data13), (15, Data15), (16, Data16)]
t->height() outputs 3
----- Question 4 -----
t->preOrder() outputs 15, 14, 12, 10,
t->postOrder() outputs 10, 12, 14, 15,
t->inOrder() outputs 10, 12, 14, 15,
t->search(13) outputs Data12
t->search(100) outputs Data10
t->search(5) outputs
t->printTree() outputs [(10,Data10), (12,Data12), (14,Data14), (15,Data15)]
t->height() outputs 3
----- Question 5 ------
t->preOrder() outputs 16, 20, 17,
t->postOrder() outputs 17, 20, 16,
t->inOrder() outputs 16, 17, 20,
t->search(15) outputs
t->search(20) outputs Data20
t->printTree() outputs [(16,Data16), (17,Data17), (20,Data20)]
t->height() outputs 2
```

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----- Question 6 -----
```

Process finished with exit code 0