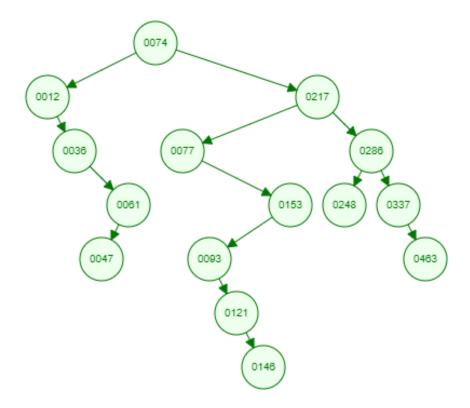
1/ BST:



2/ Height of the tree is 7.

3/

a/ Pre-order: 74, 12, 36, 61, 47, 217, 77, 153, 93, 121, 146, 286, 248, 337, 463.

b/In-order: 12, 36, 47, 61, 74, 77, 93, 121, 146, 153, 217, 248, 286, 337, 463.

c/ Post-order: 47, 61, 36, 12, 146, 121, 93, 153, 77, 248, 463, 337, 286, 217, 74.

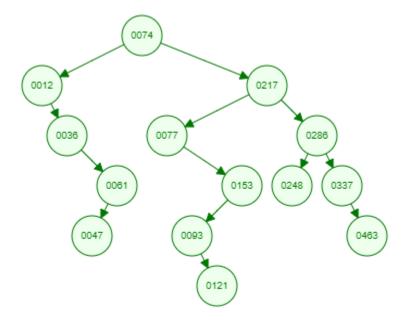
4/

- Use pre-order to make a complete duplication.
- Use in-order to sort and print ascending.
- Use post-order to delete entire tree.
- **5/** Successor (146) = 153.
- **6/** Predecessor (146) = 121.

7/

- To find 337 we need to traverse: 74, 217, 286, 337.
- To find 47 we need to traverse: 74, 12, 36, 61, 47.

8/ After remove node 146



9/

Orders of numbers:

121, 61, 36, 77, 12, 47, 74, 93, 248, 153, 337, 146, 217, 286, 463.

Balance BST tree

